PRODUCT CATALOGUE
PVC SQUARE CONSTRUCTIONS

SIEGENIA®
brings spaces to life

TITAN AF

BS axxent 24+

TITAN AF hardware programme
- For PVC window elements
- With concealed hinge side axxent 24+
- For square constructions

Window systems

Door systems

Comfort systems

Overview	1
Basic security - Fixed handle position	2
Basic security - Centre handle pos. (variable)	3
RC1 - Fixed handle position	4
RC1 - Centre handle pos. (variable)	5
RC2 - Fixed handle position	6
RC2 - Centre handle pos. (variable)	7
RC2 ECO - Fixed handle position	8
RC2 ECO - Centre handle pos. (variable)	9
Tilt sash - Centre handle pos. (variable)	10
AEROCONTROL	11

Overview

Overview	H45.TITA000S002EN	1 - 3
Symbols and abbreviations	H45.TITA000S001EN	1 - 4
Material numbers key	H45.TITM000S001EN	1 - 7

Profile cross-sections

Profile cross-sections PVC	H45.TITPKF0S001EN	1 - 9

Intended use

Intended use, axxent 24+	H45.TITA000S007EN	1 - 10
Intended use, overview	H45.TITA000S004EN	1 - 11
Intended use, PVC windows	H45.TITA000S005EN	1 - 14

Security and standards

Security and standards	H45.TITA000S003EN	1 - 19

Application diagram

Application diagram 80 kg	H58.AWD_T_S031EN	1 - 27
Application diagram 100 kg	H58.AWD_T_S026EN	1 - 28
Application diagram 130 kg	H58.AWD_T_S027EN	1 - 29
Application diagram 150 kg	H58.AWD_T_S028EN	1 - 30
Application diagram tilt sash 80 kg	H58.AWD_T_S032EN	1 - 31

Hinging / Unhinging the sash

Safety notice axxent 24+	H45.TIT0000S008EN	1 - 32
Hinging / Unhinging the sash (15° opening position of the sash)	H45.TIT0000S004EN	1 - 33
Hinging / Unhinging the sash (Sash in tilted position parallel to the frame)	H45.TIT0000S005EN	1 - 37
Hinging / Unhinging the sash TBT (15° opening position of the sash)	H45.TIT0000S007EN	1 - 41
Hinging / Unhinging the sash Turn only sash stay	H45.TIT0000S006EN	1 - 43

Directives of the Trade Organisation for Locks and Fittings (Gütegemeinschaft Schlösser und Beschläge e. V.)

The directives of the Trade Organisation for Locks and Fittings provide comprehensive information on the correct operation and maintenance of hardware for windows and portal doors.

Compliance with these guidelines is mandatory

You can find the latest versions of the directives, in a range of languages, at:

http://www.beschlagindustrie.de/ggsb/richtlinien.asp

TBDK – Attachment of supporting fitting components for turn-only and tilt & turn fittings

with definitions for turn-only and tilt & turn fittings and their possible installation positions

VHBH – Hardware for windows and balcony doors

Guidelines/advice on the product and on liability

VHBE – Hardware for windows and balcony doors

Guidelines/advice for end-users

FPKF – Restrictor and cleaning stays for tilt-only sashes and tilt-only fanlights

Use of restrictor and cleaning stays

FBDF – Casement stoppers for variable rotational position of window sashes

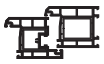
Casement stoppers that are controlled via the central locking system - definitions and tests

Further relevant documents

You can find further relevant documents, for example structural design charts, assembly instructions, profile spec sheets, individual component sheets, and maintenance, operating and care instructions, on our documentation pages:

http://downloads.siegenia.com/

Element materials



Element material PVC

Element material timber

Element material aluminium

Opening types

Rectangular turn-tilt element

2-sash rectangular turn-tilt/turn elementt

Rectangular turn element

2-sash rectangular turn/turn element

Rectangular tilt element

Arched-head turn-tilt element

2-sash arched-head turn-tilt/turn element

Rounded-head turn-tilt element

2-sash rounded-head turn-tilt/turn element

Angled turn-tilt element

Triangular turn-tilt element

Symbols

Height adjustment

Side adjustment

Compression adjustment

Dimensions

All dimensions are nominal values and include the general tolerances.

All nominal values are given in mm.

Weights

All weights refer to the maximum sash weight.

70	locking distance 700 mm
.../A	croppable component
.../G	counter
.../K	consistent component length
...+	component to slide underneath
16/2	fitting groove 16 x 2 mm
A0175	hinge clearance through sash
A0245	suitable for use with threshold
AB	start of bow begin arch
ADV	adjustable compression
AF	automated manufacturing
AWD	application diagram
bag	bag
BAN	hardware groove
BS	hinge side
BSO	hinge side, top
BSU	hinge side, bottom
BSW	threshold
CG	glass deduction dimension
crt.	carton
D	turn
DEF	triangular window
DF	turning sash
DFB	turn only hinge
DG	turning sash, reverse-action
DH	turn restriction
DK	turn-tilt element
DS	turning secondary sash
DS 8	turning secondary sash (eurogroove)
DS 16	turning secondary sash (with reverse-action hardware groove)
DSV	concealed turning lock
DZB	turn hinge
E	anti-intruder
EB	corner hinge
EL	inserting jig
ELB	bottom hinge pin
EL O	bottom hinge top
EL U	bottom hinge bottom
EL-S U	bottom hinge
ES	increased security
ESL	stainless-steel finish
FA	sash distance
FAV	FAVORIT
FB	sash hinge
FBS	anti-mishandling device
FEB	rebate corner hinge
FFA	sash rebate stop
FFB	sash rebate width
FFH	sash rebate height
FFK	sash rebate edge
FG	sash lift
FH	sash lift
FHD	sash timber thickness
FL	airgap
FPS	tilt-only security stay
FT	rebate depth
FZ	fixing bolt
G	handle position
GBA	straight pin
GG	glass weight
GK	Constant handle height
GL	glazing bead
GM	centre/variable handle height
GS	basic security
h	milling depth
H	timber
H4	timber, 4 mm airgap
H12	timber, 12 mm airgap
HD	heavy duty hinge side
K	tilt
KD	tilt before turn (=TBT)
KFB	tilt sash hinge
KL	clamping jig
KR	shoot bolt
KRB	tilt-lock element

KRL	tilt-lock bearing
KS	constant secondary sash
KSB	tilt striker plate
LH	left
LS	length of angled section
M	magnetic cam
MB	with bolts
MN	with groove
MSP	multiple gap ventilation
MV	centre lock
NA	groove axis
ON	without groove
OS	without lock
OZ	without cam
PDB	profile data sheet
PVC	plastic
PZ	profile cylinder
PZD	pozidriv
RAN	fitting groove
RB	arched head
RC	resistant Class
RH	right
RFA	frame rebate stop
RFB	frame rebate width
RFH	frame rebate height
RFK	frame rebate edge
RS	rolling security cam
RSA	bolt throw
S	heavy version
SB	striker plate
SB	rounded head
SB-RS	striker plate f. rolling security cam
SE	flush-closing
S-ES	mushroom cam
SF	angled-head window
SL	top hinge
SP	gap ventilation
S-RS	comfort mushroom
SW	wrench size/opening
t	drilling depth
TAF	TITAN AF
TBT	Tilt-before-turn
Telesk.	Telescope
TiP	TITAN iP
TL	door design
TS	titanium silver
U	bottom
ÜB	rebate width
UE	monitoring
UEB	rebate
US	bottom side
VKE	sales unit
VL	extension
VS	locking side
VSO	locking side, top
VSU	locking side, bottom
W	stay hinge
witho.	without
Z	additional stay
ZZ	toothing/toothing

The material number is a code for components and consists of eight segments. The material number allows products to be precisely assigned to their corresponding component drawing, surface, colour and other properties.

T	KEU	900	0	–	0	38	06	0

Product group
This code specifies to which product group of the SIEGENIA the product belongs

Assembly
The assembly is a reference to the component family (e.g. covers, gears, frame parts, etc.)

Article counter
Consecutive component number

DIN or opening direction
This code specifies the side of the hinge or opening direction)

Surface
Surface treatment of metal components (e.g. zinc-plated)

Colour
Colour of surface or material

Sales unit
Sales or packaging unit

Index
Production index

Material numbers key

T	KEU	900	0	–	0	38	06	0
1	2	3	4		5	6	7	8

1 Product group					
A	A300	G	DRIVE (Building technology)	T	TITAN
B	BASICline	K	Small parts	U	SASS
C	Casement	L	AERO (Ventilation technology)	V	Packaging
D	KFV (Door)	M	ALU	Z	Accessories (general)
F	FAVORIT	P	PORTAL		

2 Assembly					
A	Jig	H	Handle	S	Stays
B	Hinge side parts	K	Cover caps	U	Monitoring (Aerocontrol/ radio sensor)
D	Seal, distance piece	L	Bogie wheels	V	Extension
E	Corner drives, lock bolts, locking parts	M	Mixed packages	Z	Linkages / accessories
F	Sash components	P	Profiles / profile sets PORTAL		
G	Gear	R	Frame parts		
The abbreviations ONLY apply to the 1st digit. Further digits are assigned individually.					

3 Article counter
The articles are assigned consecutive numbers from 001 to 999.

4 DIN or opening directions					
0	Independent of opening	1	DIN right	2	DIN left

5 Surface					
0	Neutral (finished surface) e.g. plastic	2	E-Look (galvanised)	6	Clear - chromated (galvanised)
1	Titan silver (galvanised)	5	Aluminium (suitable for anodising, painting or coating)	L	Painted

6 Colour					
01	RAL 9001 Cream	16	RAL 8001 Ochre brown	H0	Old gold (EV4)
02	RAL 9003 Signal white	24	EV1 anodised	H4	F9 Titan bright
11	RAL 8022 Black brown	38	Gold shining	I2	F3 Gold matte
For further colours please inquire.					

7 Packaging unit					
01	Quantity of 1	04	Quantity of 25	07	Quantity of 250
02	Quantity of 10	05	Quantity of 50	08	Quantity of 500
03	Quantity of 20	06	Quantity of 100		
For further packaging units please inquire.					

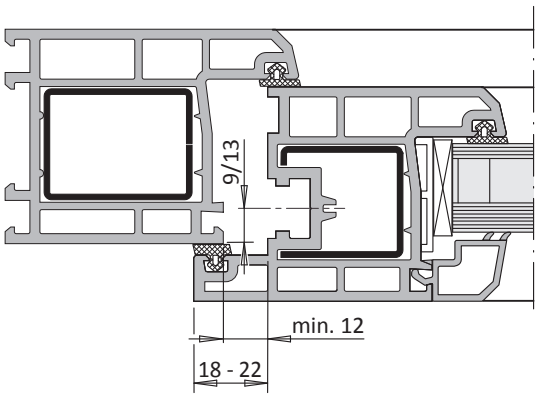
8 Processing index
The processing index indicates the processing status and is assigned consecutively.

1-sash design

Cavity: min. 12 mm

Rebate width: 18 to 22 mm

Groove axis: 9/13 mm

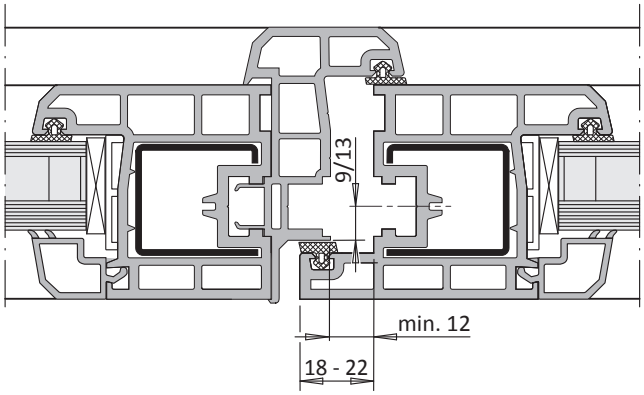


Secondary sash with opposed fitting groove (DS 16)

Cavity: min. 12 mm

Rebate width: 18 to 22 mm

Groove axis: 9/13 mm

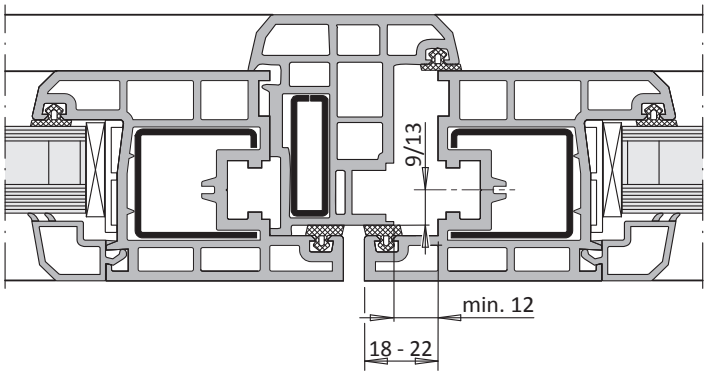


Secondary sash with opposed fitting groove (DS 16)

Cavity: min. 12 mm

Rebate width: 18 to 22 mm

Groove axis: 9/13 mm



Note:

For profile-related specifications please refer to the SIEGENIA profile datasheets.

Caution:

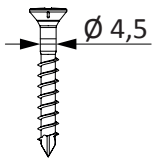
The size ranges stated on the set sides apply to SIEGENIA fittings. In addition, the specifications of the profile fabricators or system owners also apply, especially in regard to possible restrictions on sash dimensions, sash weight and lock spacing.

Important instructions for fabricators

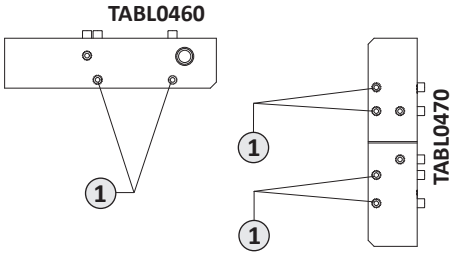
Mounting the hardware components

Bottom hinge and stay arm:

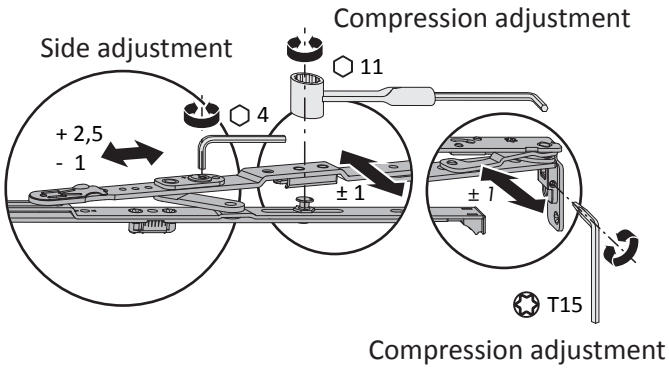
A special screw with a shank diameter of 4.5mm must be used to fix thecomponent!



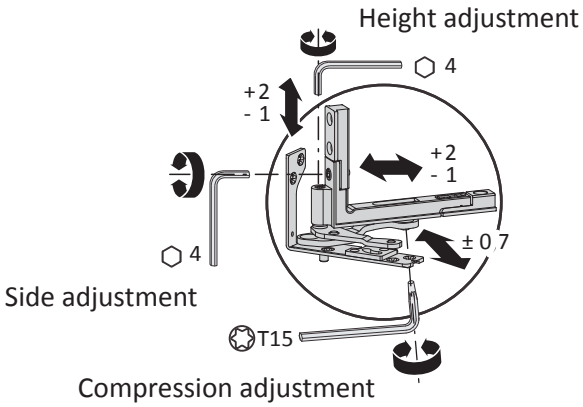
For sufficient fastening according to TBDK the designated screws (1) must be screwed in to the steel reinforcement for PVC profiles.



Adjusting the stay



Adjusting the bottom and corner hinge



Important instructions for fabricators

Priorandapplicable documents

The following documents take precedence over and/or are applicable with this document:

- Guidelines regarding product liability (TBDK, VHBH, VHBE, FPKF, FBDF)
- Application range diagrams
- Operating, care and maintenance instructions

References to these documents can be found in the „General“ section H45.TITA000S002.

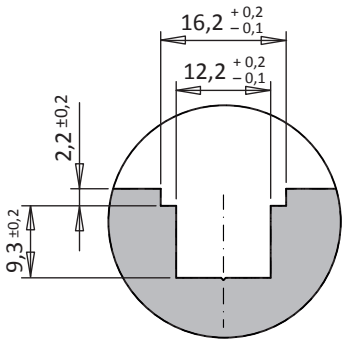
Systems

The size ranges that are specified are binding for the hardware solutions that are included in this document. The following specifications must also be adhered to:

- **PVC windows / aluminium window with 16 mm BAN**
  The specifications of the profile fabricators or system providers also apply, especially in regard to possible restrictions on sash dimensions, sash weight and lock spacing. Where special manufacturing instructions or fabrication guidelines exist, these must be explicitly adhered to. The specifications given for screw-in revolutions and torques must be adhered to.

- **Timber windows**
  The specifications of DIN 68 121 (timber windows and window doors).

  Required eurogroove



Area of application

All hardware solutions are intended for installation on **inward** opening windows and portal doors.

The specified steel hardware components are electro-galvanised and then finished using a special process. They are not suitable for use:

- In damp locations
- In environments where the air contains aggressive, corrosive components
- In environments where the air contains salt
- With timbers containing aggressive substances

Please contact your SIEGENIA sales consultant in such situations.

Hardwaresolutions

The illustrations below of hardware solutions for intruder resistance on single and double-sash windows and window doors are **recommendations** only.

Special measures must be taken in order for test certificates to be obtained, depending on the regulation/test standard and target resistance class, with regard to the type of timber, profiling, reinforcement, weather strip bar, how the weather strip bar is connected and the hardware.

The specifications relating to this in the section:

- Intruder-resistant properties of an PVC window
- Intruder-resistant properties of an aluminium window
- Intruder-resistant properties of an timber window
- Informations about DIN EN 1627 - 1630 in the „Security and Standards“ section

Contact SIEGENIA in individual cases with respect to appropriate testing versions.

Excessive strain

Bearing components can break as a result of excessive strain. If this happens, the window sash may fall out, leading to serious injuries. If the hinge parts are likely to be subject to excessive strain under certain conditions (use in schools, nursery schools, etc.), appropriate measures must be taken to prevent this from happening, such as using a friction stay to limit the opening angle of the window, or using a turning lock.

If there is any doubt, be sure to consult your SIEGENIA sales consultant.

Complete set of hardware

Your complete set of hardware should be composed of **solely** SIEGENIA hardware components. Otherwise damage could occur, for which we accept no liability.

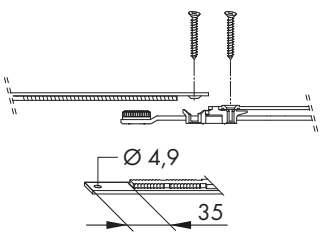
Mounting the hardware components

All hardware components must be mounted properly. When doing so, pay particular attention to the mounting position and ensure that all hardware components on the hinge side are firmly attached. The top hinge pin must be pushed in up to the stop **from below**, and snapped into the springs of the top hinge. Pull out the top hinge pin only with a suitable assembly key.

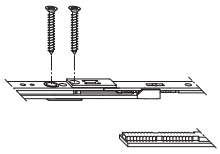
These procedures must be carried out by experienced professionals only.

Connecting the hardware components

- TITAN iP linkage cut



- TITAN AF/FAVORIT cut to length



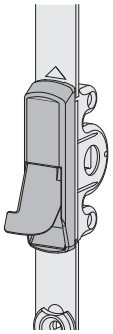
Calibration of adjustable components

The given values for side, height and pressure settings must not be exceeded. Otherwise bearing components may break due to excessive strain and the window sash may fall out.

Note also our maintenance instructions (order no. H4002.2873en).

Using a mishandling device

In order to protect the hardware and the window element, and to ensure a long service life, we recommend the use of a mishandling device such as the below, **particularly for heavy sash weights from 100kg**.



You can find our assembly video here:
Assembling the mishandling device

Mounting the hardware components

- Handle:
  - Countersunk screws M 5 x .., in accordance with DIN 965-4.8; the screws should be long enough that they engage a minimum of 6 mm into the screw thread of the gear casing. The maximum torque should not exceed 2 Nm.

- Remaining hardware components:
  - Screws 4 x 25 or 30 for PVC windows
  - Screws 4 x 30 for timber window (pre-drilling is required for softwoods)
  - Self-drilling screws 3.9 x … for aluminium windows
  - **Countersunk screws with partial thread 4 x 25 or 30 must be used to mount all hardware components in the vertical secondary sash area on secondary sash windows.**

- Screw material:
  - Do not overwind zinc-coated and passivated surfaces for „Titanium Silver“ screws
  - With a Zn-Ni or Deltatone with Delta Seal surface for „E-look“ to avoid contact corrosion.

- To obtain a test certificate, it is necessary for the S-RS striker plates and tilt lock bearing to be connected in a particular way.

Do not overtighten the screws.

Timber surface treatment

Timber windows and door elements should only be surface treated **before** the hardware components are assembled. Treating these surfaces at a later stage can reduce the functional capacity of the hardware components.

Inserting blocks

When inserting blocks, be sure to observe technical guideline no. 3 from the German Glazing Trade [Glaserhandwerk], “Blocking glazing units” [Klotzung von Verglasungseinheiten].

Sealants

Never use acid cure sealants as they may cause the hardware components to corrode.

Cleaning

Keep the rebates free from deposits and dirt, especially from remnants of cement and plaster. Avoid exposing the hardware directly to water and do not let cleaning agents come into contact with the hardware.

Information for end users

Provide the user with the following documents:

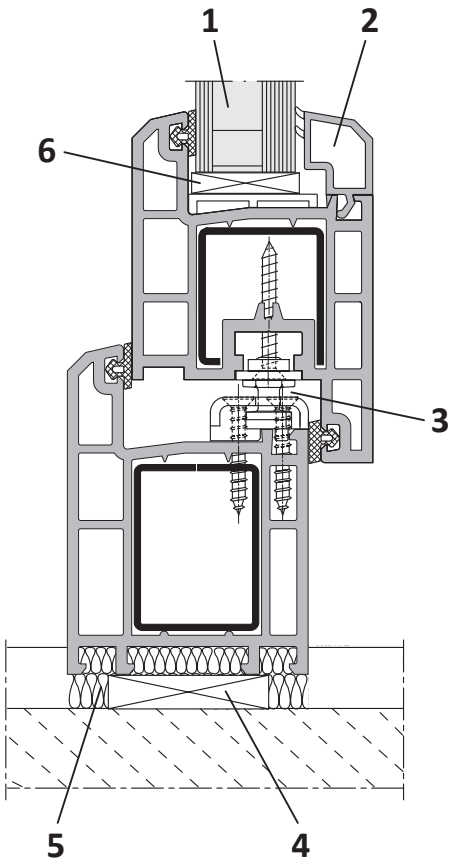
- Operating and Care Instructions (order no. H4002.2874en)

Technical changes

We reserve the right to make technical changes required as a result of the further development of products or a change in standards, laws or jurisdiction.

We assume no liability for printing errors.

Anti-intruder features of a PVC window



1 Penetrationresistant glazing

2 Secured glazing bead

3 Design and mounting of the hardware

4 Dowel fastening to the building structure around the locking positions

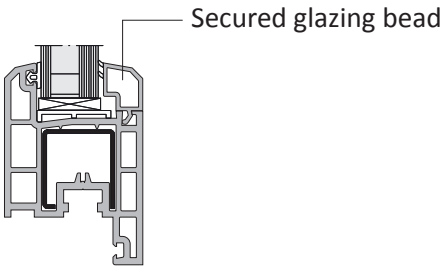
5 Compression-resistant backing

6 Compression-resistant distance block setting

DIN EN 1627 ff – RC1

Airgap

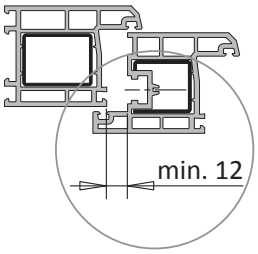
The glazing beads should be secured according to requirements (e.g. by screw connections, adhesive bonding, etc.) or the laminated safety glass pane must be bonded in the rebate.



Cavity

The cavity dimension which is specified in the SIEGENIA profile datasheet for the corresponding plastic profile system must be adhered to.

It must not be exceeded, nor must it fall below the limit.

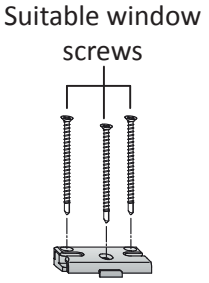


Striker plates and tilt lock bearings

The S-RS striker plates must be positioned in such a way that the locking cams catch in the striker plates as much as possible.

The screw length must be selected so that the S-RS striker plates and tilt lock bearings are screwed into two walls if possible.

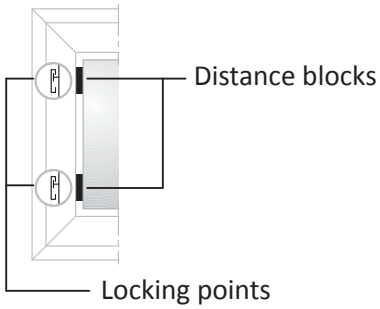
If it is possible to screw into steel bracings, selfdrilling screws with Ø 3.9 mm should be used. The length must be selected so that the screws can be screwed into the bracing by 8 to 10 mm.



If a frame groove is available, it should be sealed with a cover profile.

Inserting blocks

To prevent the sash profile from moving in the glazing rebate, the glass pane must also be set with blocks close to the security latching positions (distance blocks).

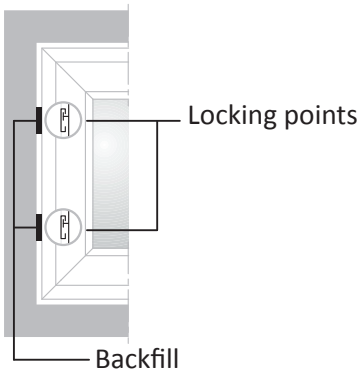


Wall mounting

The cavity between the frame and the brickwork near the locking points must be back-filled to be compression resistant.

When fixing the window elements, special steps must be taken with regard to the distance between fixing

points, the edge spacing and the wall construction, depending on requirements.



DIN EN 1627 ff – additional information for RC2

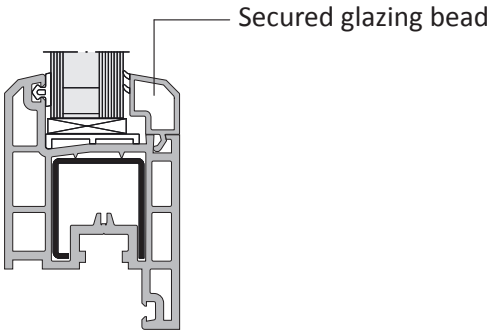
Window frame

To ensure that the sash can only move minimally within the window frame, distance blocks must be mounted in the corner areas of the window frame (see also hardware layout).

At the same time, however, this must not restrict the options available for adjusting the fittings.

Glazing rebate

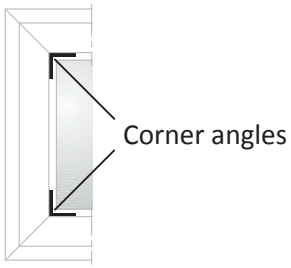
The glazing beads must be secured according to requirements (e.g. by screw connections, adhesive bonding, etc.), or the laminated safety glass pane must be bonded in the rebate.



DIN EN 1627 ff – additional information for RC3

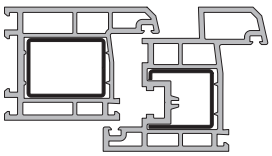
Glazing rebate

The four corners of the sash frame must also be screwed into the glazing rebate with steel brackets. These steel brackets prevent the mitre joints from breaking apart in the event of a break-in attempt.



Profile system

Flush profile systems are generally better suited to the design of anti-intruder windows as they offer fewer opportunities for the intruder‘s tools to be used.



Requirements and national specifics for DIN EN 1627:2011-09

DIN EN 1627ff

After a draft standard period of 12 years, the EN 1627ff series of standards was published as DIN EN 1627ff in September 2011.

The key changes refer to the description of the resistance classes and the test procedure for resistance class 1.

Widerstandsklassen (resistance classes) WK1 - 6 are referred to as resistance classes (RC) in the final version of the standard.

The number of resistance classes has not changed (RC1 – RC6).

The standard governs the requirements and classifications with respect to the anti-intruder features of windows, doors, curtain walling, grilles and shutters.

It is valid for the following types of openings: turning, tilting, folding, tilt & turn, swinging, sliding (horizontally and vertically) and roller, as well as structures that do not open.

Resistance class RC2 has been split into two separate classes (RC2N and RC2).

The suffix „N“ in classes RC1N and RC2N represents the possibility that national requirements may have to be taken into account.

No requirements are made in these classes with respect to glazing in the German version of EN 1627. Nevertheless, the glass must be connected in the manner in which it has been tested.

SIEGENIA level	Standard/ Directive	Test class	Striker plate	Handle	Drilling protection	Glazing
Basic security	—	—	Standard	Standard	No	No requirements
RC1	DIN EN 1627	RC1N	S-RS	Lockable 100 Nm	Yes	No requirements
RC2	DIN EN 1627	RC2N	S-RS	Lockable 100 Nm	Yes	No requirements
		RC2				EN356, P4A
RC3	DIN EN 1627	RC3	S-RS	Lockable 100 Nm	Yes	EN356, P5A

Glazing

Minimum requirements for glazing

Test class	Glazing in accordance with EN 356
RC1N	No requirements
RC2N	No requirements
RC2	P4A
RC3	P5A
RC4	P6A
RC5	P7A
RC6	P8A

Requirements for glazing the test specimen

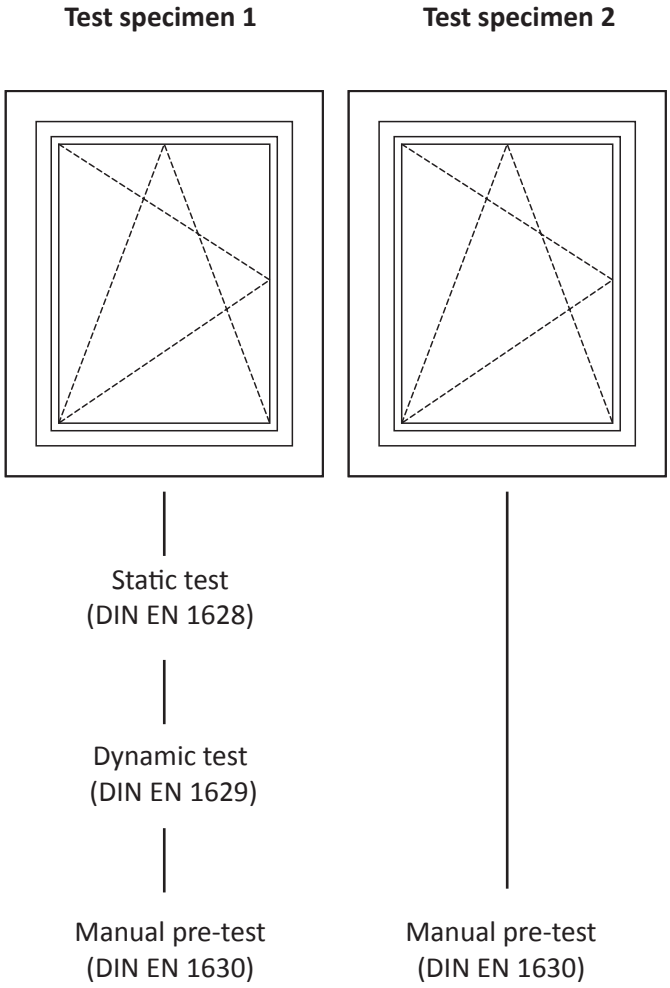
For the test, the test specimens are to be fitted with glazing in accordance with EN 356. In order to protect the tester, the safety glass should be placed on the attack side.

Test class	Glazing in accordance with EN 356
RC1N	P4A
RC2N	P4A
RC2	P4A
RC3	P5A
RC4	P6A
RC5	P7A
RC6	P8A

Test specimens

Two identical test specimens are required for the test in accordance with DIN EN 1627ff.

- Test specimen 1 is used for the weak point analysis.
- Test specimen 2 is used for the main test subject to the weak point analysis.



Test method

The established breakdown of the test method into static, dynamic and manual tests presented in the draft standard has essentially remained the same.

- DIN EN 1628 static test method
- DIN EN 1629 dynamic test method
- DIN EN 1630 manual test method

Changes have however been made to the individual test methods.

DIN EN 1628

DIN EN 1628 describes the test method for determining the resistance of a construction product under static loading.

Depending on the resistance class, this involves defined forces being applied to specific points in order to determine the deflection of the movable part of the construction product.

In contrast to the draft standard, the deflection is no longer measured but is determined using gap gauges instead.

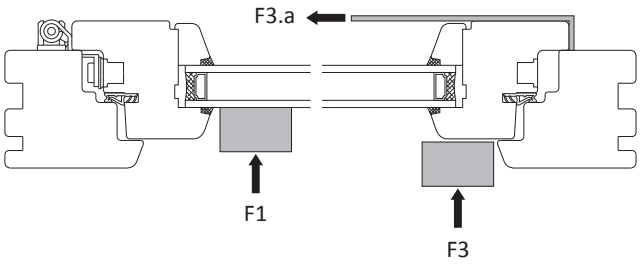
	Resistance class (RC)							
	RC1 and RC2		RC3		RC4		RC5 and RC6	
Loading points	Test load kN	Gap gauge type	Test load kN	Gap gauge type	Test load kN	Gap gauge type	Test load kN	Gap gauge type
F1 Infill corner	3	B	6	B	10	B	15	B
F2 Leaf/sash corner	1,5	B	3	B	6	B	10	B
F3 Locking points	3	A	6	A	10	A	15	A
F3.a Additional load	1,5	A	—	—	—	—	—	—

Loading points

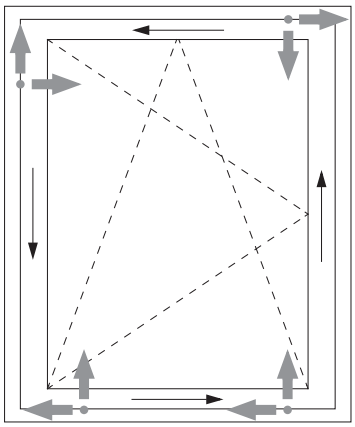
- **F1 Infill corners**
  Load is to be applied to each infill corner.

- **F2 Leaf/sash corners**
  Load is applied to the corners of the leaf/sash if the next locking point is more than 350 mm away from the corner.

- **F3 Locking points**
  Each locking point is loaded to F3. If two locking points are less than 200 mm apart, the load is applied midway between them.
  Locking points are all connection points between window and leaf/sash frames, including hinges.



- **F3.a Locking points**
  (only for resistance class RC1N)
  Load F3.a is applied in conjunction with load F3 on the flat of the test specimen (reproducibility of an attack using small lever tools).
  The load is applied against the locking direction in a way which increases the airgap.



- Locking point
- Locking direction
- Load direction F3.a

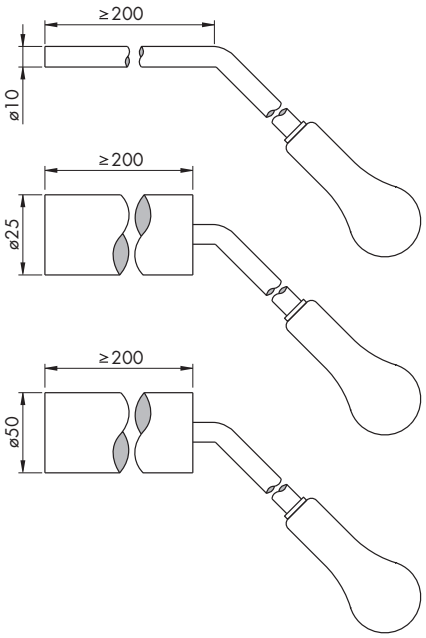
Gap gauges

Gap gauges for testing deflection

Type A (ø 10 mm)

Type B (ø 25 mm)

Type C (ø 50 mm)



The type C gap gauge is used for group 3 products (e.g. shutters).

DIN EN 1629

DIN EN 1629 describes the dynamic test method for the elements.

The test aims to simulate attacks made by people who attempt to use their shoulders or feet to create an accessible opening.

For products in resistance class 1, all parts are also dismantled on the attack side, in a non-destructive manner, using tool set A1 prior to carrying out the dynamic test. This preparatory procedure must not take longer than 3 minutes.

Whereas in DIN V ENV 1629 the test was carried out using a 30 kg sandbag, the new DIN EN 1629 standard uses a 50 kg impactor.

For this test, safety glazing (P4A in accordance with EN 356) should be placed on the load side.

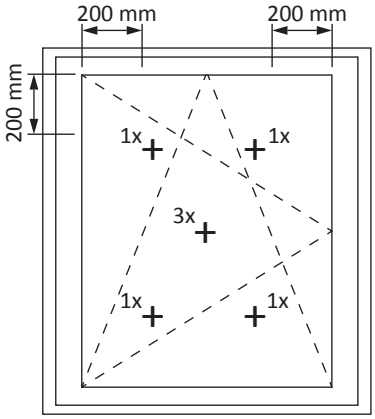
The dynamic test is only carried out in resistance classes RC1 to RC3.

Dynamic testing is not required in resistance classes RC4 to RC6.

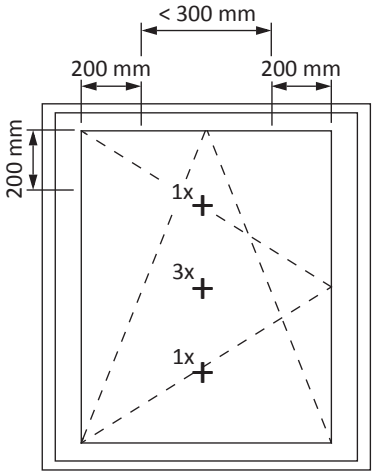
Due to the increased weight of the pendulum impact, the drop height has been reduced.

Test class	Drop height in mm	Weight of the impactor in kg
RC1N	450	50
RC2N		
RC2		
RC3	750	
RC4 to RC6	No dynamic test required	

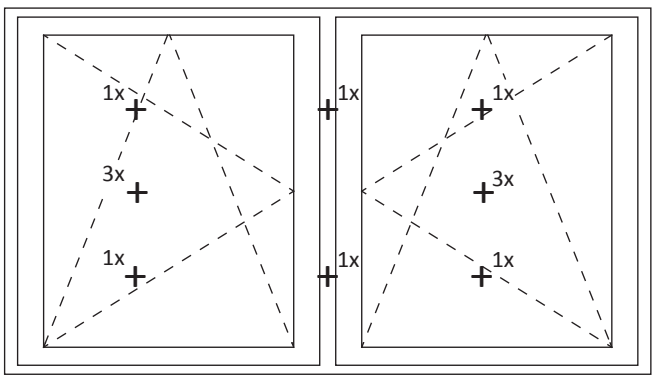
The impact load is applied once at each corner of the infill



and three times in the centre of the test specimen.

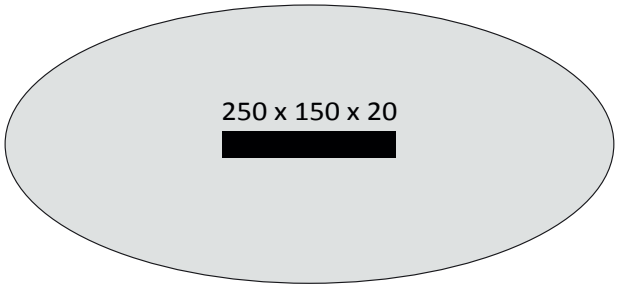


On secondary sashes, the individual infill panels are only impacted on the centreline. The secondary sash area is also tested.



Evaluating the results of the dynamic test

The test specimen has not passed the test if gap gauge D can be passed through the opening that has formed in the test specimen.



DIN EN 1630

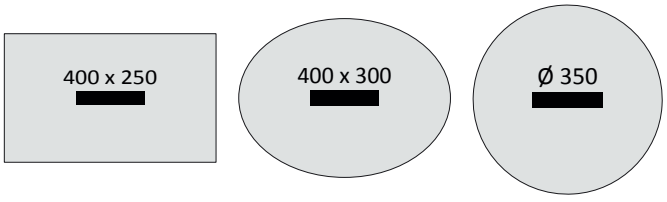
DIN EN 1630 describes how resistance to manual intrusion attempts is determined.

The test specimens are installed in a sub-frame.

Depending on the resistance class, the tester has various tool sets available in order to create an accessible opening.

The resistance time includes periods of fewer than 5 seconds for each time the tester changes tools.

The following analysis templates are used to determine an accessible opening.



Break-in testing according to DIN EN 1627:2011

A specific procedure, a resistance time and a specific tool set is stipulated for each resistance class for the break-in test.

Resistance class DIN EN 1627:2011	Type of intruder/procedure/tools	Resistance time
RC1N	A manipulation test is carried out using small tools, components of this resistance class only have low protection against the use of lever tools. This class is conducted with standard glass.	3 minutes
RC2N	The intruder also attempts to force thelocked and bolted component openusing simple tools such as screwdrivers, pliers and wedges. A direct attack on the glazing used is unlikely. This class is also conducted with standard glass.	3 minutes
RC2	The intruder also attempts to force the locked and bolted component open using simple tools such as screwdrivers, pliers and wedges. Glazing in accordance with EN 356 is compulsory from class RC2.	3 minutes
RC3	The intruder also attempts to force the locked and bolted component open using a second screwdriver and a crowbar.	5 minutes
RC4	The experienced intruder also uses sawing tools and striking tools such as an axe, a crowbar, a hammer and chisel and a cordless drill.	10 minutes
RC5	The experienced intruder also uses power tools such as a drill, a jig saw or sabre saw and angle grinder (max. disc diameter 125 mm).	15 minutes
RC6	The experienced intruder also uses heavy-duty power tools such as a drilling machine, a jig saw or sabre saw and angle grinder (max. disc diameter 230 mm).	20 minutes

Correlation

If the body issuing the invitation to tender announces the elements as antiintruder elements in accordance with DIN EN 1627 - Resistance Class RC2, then, by referring to the correlation table, an existing test certificate to DIN V ENV 1627 - Resistance Class RC2 can be used.

Apart from for resistance class RC1N, it is assumed that products that were classified as resistance class RC2 – RC6 correspond to the same classes in the standard DIN EN 1627.

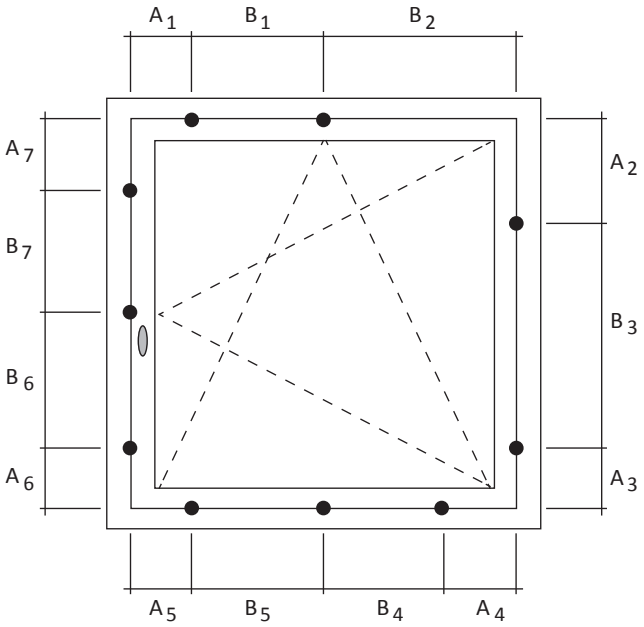
Resistance classes (RC) in accordance with DIN EN 1627:2011-08	Resistance classes (RC) in accordance with DIN V ENV 1627:1999-04
RC1N	No correlation possibleh
RC2N	WK2 (free choice of glazing - glass connection as tested)
RC2	WK2
RC3	WK3
RC4	WK4
RC5	WK5
RC6	WK6

Dimensions

The classification of a product is only valid for the dimensions that were actually tested.

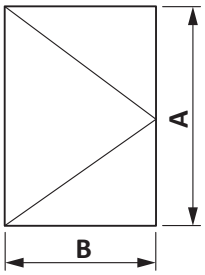
A selection of test specimens is required if a product system is to be assessed.

Using the rule of extrapolation, the tested dimensions can be extended or reduced within their limits without the need to carry out a test.



Key

A1 ... A7	+5%, –20%
B1 ... B7	+5%, –30%
Surface area	±25%



- for the middle sash (in triple sash elements)
- inward opening elements only

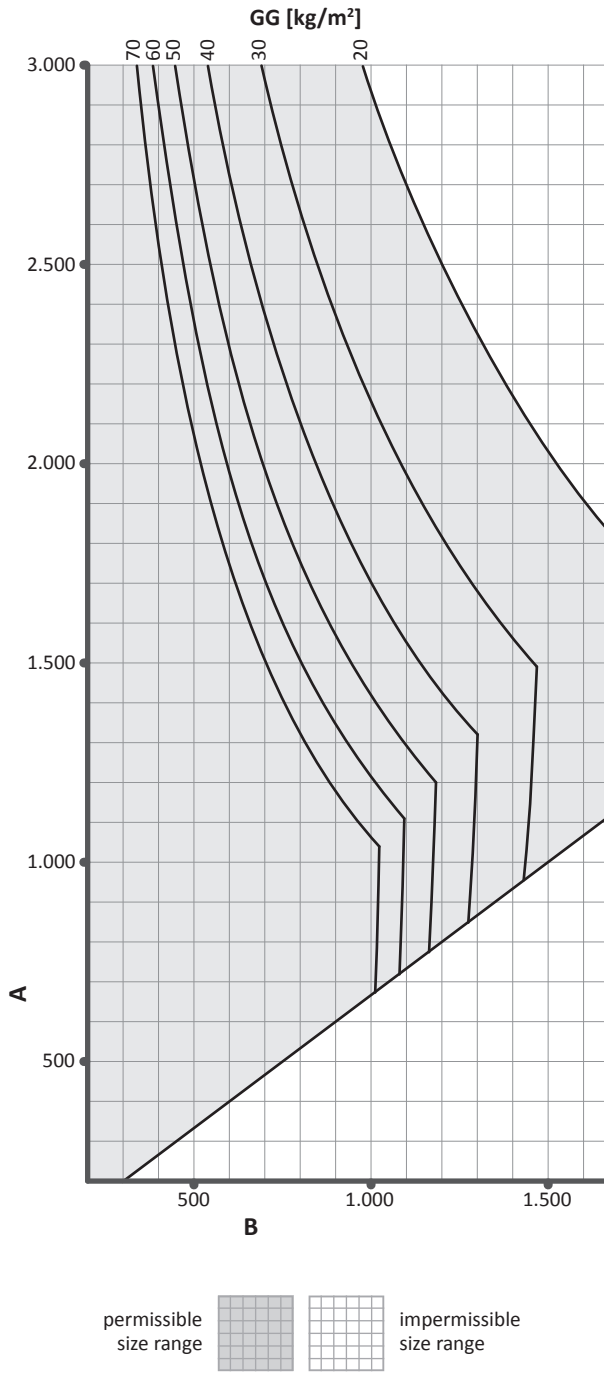
A = FFH (sash rebate height [mm])
B = FFB (sash rebate width [mm])
GG = glass weight [kg/m²]

basis for testing and calculation

- turn-only test according to QM 328
  System 2 - Figure A:
  - turn-only cycles: 25,000
- additional loads taken into account
  according to EN 14608 (figure A.1)/class 4
  according to EN 13115 (800N).

Conditions for the use of the application diagram

- Evidence for fixing structural components
  onto the window system by a window manufacturer
  according to TBDK with the following forces:
  - on the top hinge (N): 2,200
  - on the bottom hinge (N): 2,310
- The following values are to be observed with
  all window systems:
  - max. width/height ratio $Q_{B/H}$: ≤ 1.5
  - glass deduction dimension CG (mm): ≥ 28
  - profile weight PG (kg/m): ≤ 3.25
- Notes on the intended use:
  Basics and use of the application diagrams
  "Download"

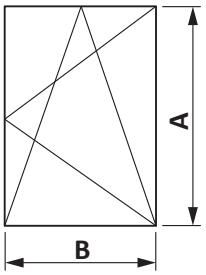


TITAN

application diagram

hinge side: axxent 24+

≤100



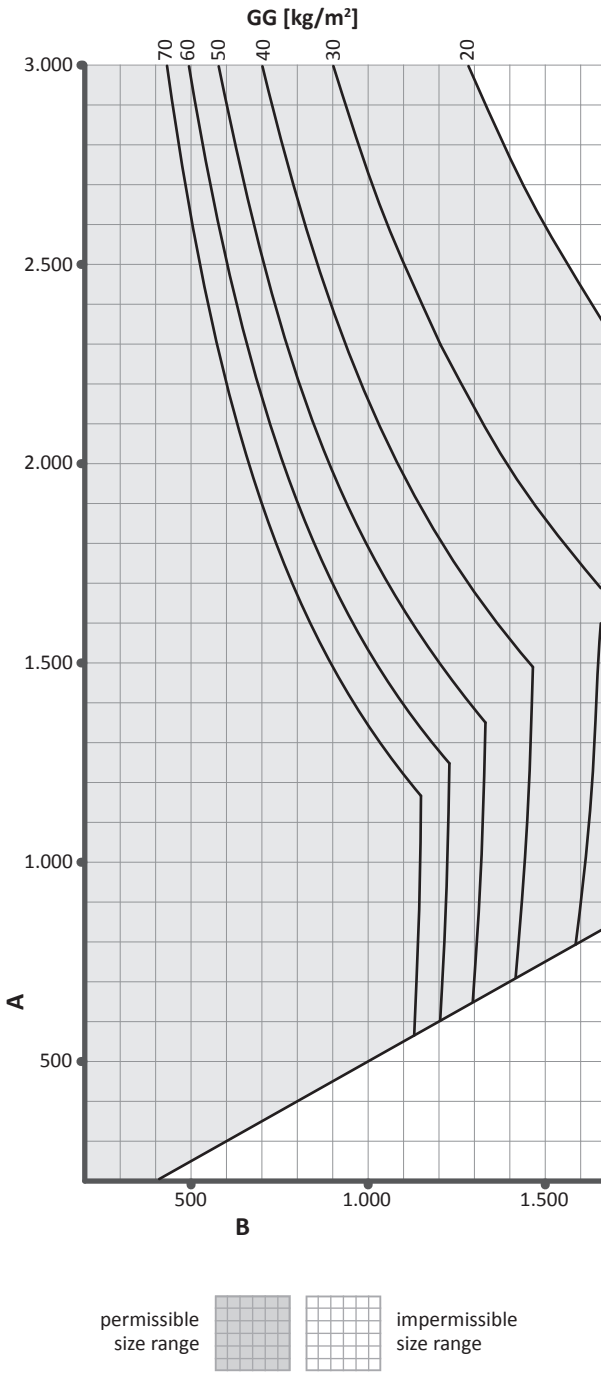
- inward opening elements only
  A = FFH (sash rebate height [mm])
  B = FFB (sash rebate width [mm])
  GG = glass weight [kg/m²]

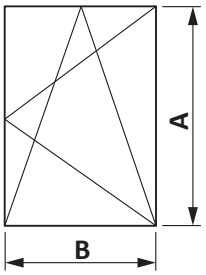
basis for testing and calculation

- Tilt-turn test according to QM 328
  System 2 - Figure A:
  - turn-only cycles: 10,000
  - tilt-turn cycles: 15,000
- additional loads taken into account
  according to EN 14608 (figure A.1)/class 4
  according to EN 13115 (800N).

Conditions for the use of the application diagram

- Evidence for fixing structural components
  onto the window system by a window manufacturer
  according to TBDK with the following forces:
  - on the top hinge (N): 2,710
  - on the bottom hinge (N): 2,890
- The following values are to be observed with
  all window systems:
  - max. width/height ratio $Q_{B/H}$: ≤ 2.0
  - glass deduction dimension CG (mm): ≥ 28
  - profile weight PG (kg/m): ≤ 3.25
- Notes on the intended use:
  Basics and use of the application diagrams
  "Download"





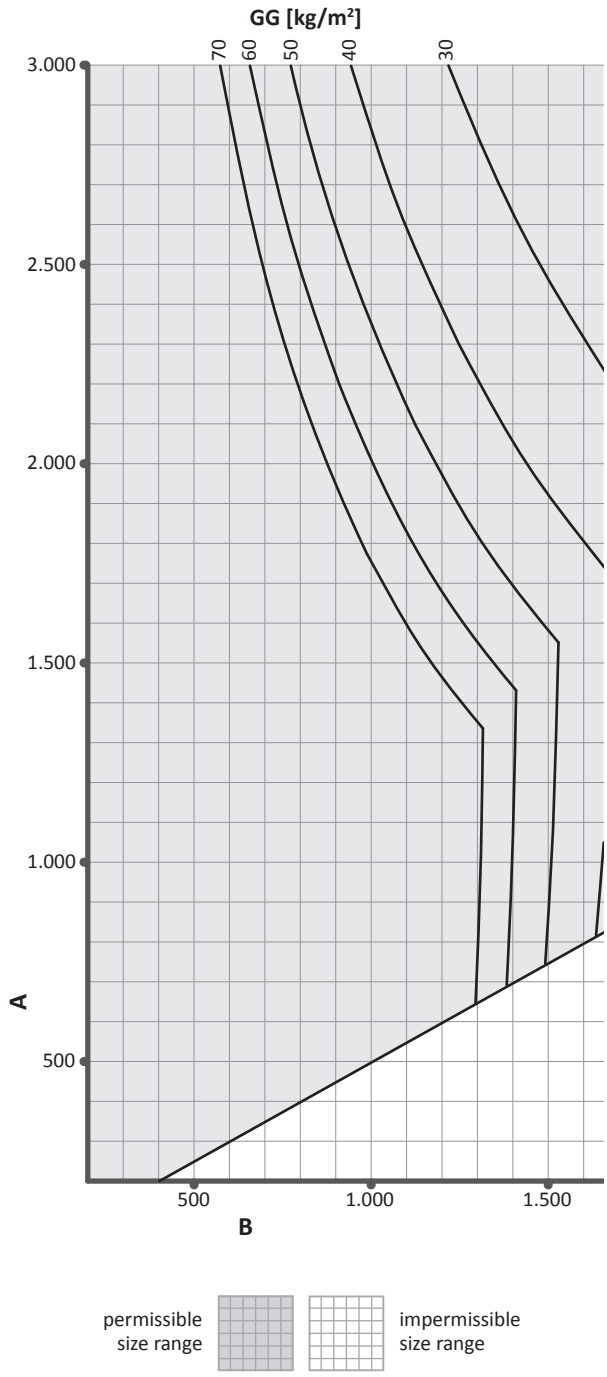
- inward opening elements only
  A = FFH (sash rebate height [mm])
  B = FFB (sash rebate width [mm])
  GG = glass weight [kg/m²]

basis for testing and calculation

- Tilt-turn test according to QM 328
  System 2 - Figure A:
  - turn-only cycles: 10,000
  - tilt-turn cycles: 15,000
- additional loads taken into account
  according to EN 14608 (figure A.1)/class 4
  according to EN 13115 (800N).

Conditions for the use of the application diagram

- Evidence for fixing structural components
  onto the window system by a window manufacturer
  according to TBDK with the following forces:
  - on the top hinge (N): 3,525
  - on the bottom hinge (N): 3,760
- The following values are to be observed with
  all window systems:
  - max. width/height ratio $Q_{B/H}$: ≤ 2.0
  - glass deduction dimension CG (mm): ≥ 28
  - profile weight PG (kg/m): ≤ 3.25
- Notes on the intended use:
  Basics and use of the application diagrams
  "Download"

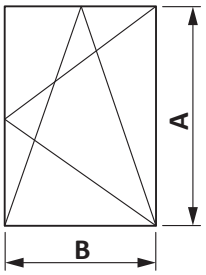


TITAN

application diagram

hinge side: axxent 24+

≤150



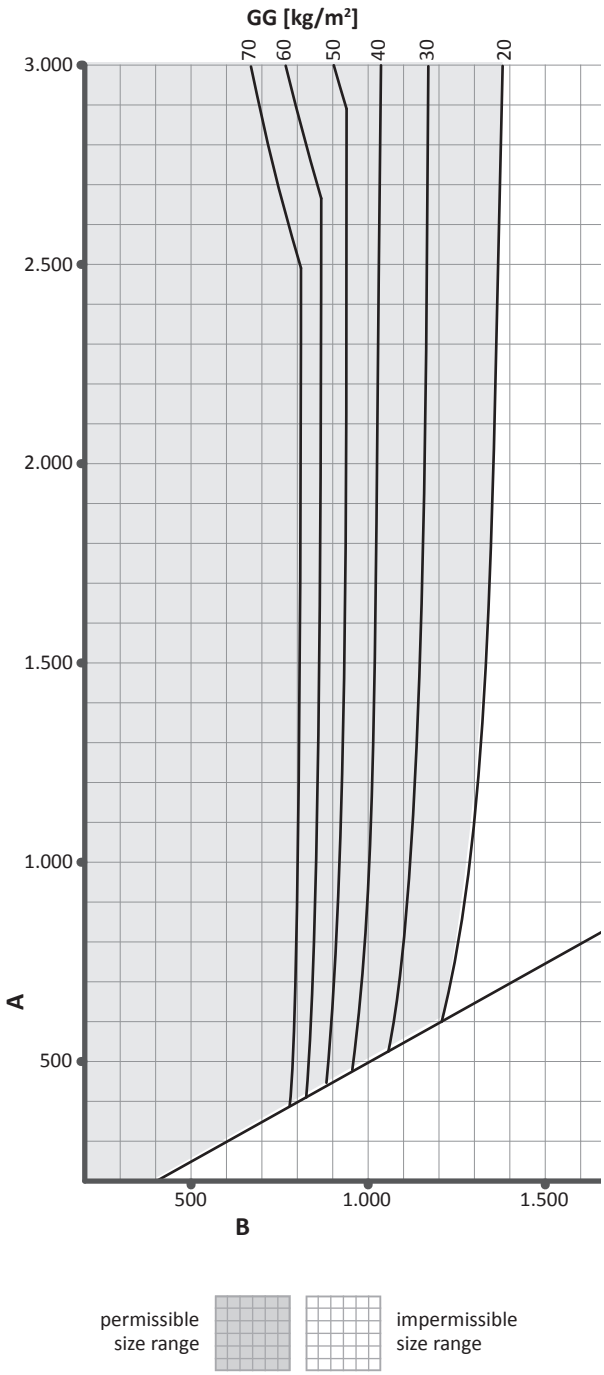
- inward opening elements only
  A = FFH (sash rebate height [mm])
  B = FFB (sash rebate width [mm])
  GG = glass weight [kg/m²]

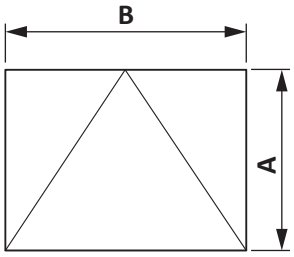
basis for testing and calculation

- Tilt-turn test according to QM 328
  System 2 - Figure A:
  - turn-only cycles: 10,000
  - tilt-turn cycles: 15,000
- additional loads taken into account
  according to EN 14608 (figure A.1)/class 4
  according to EN 13115 (800N).

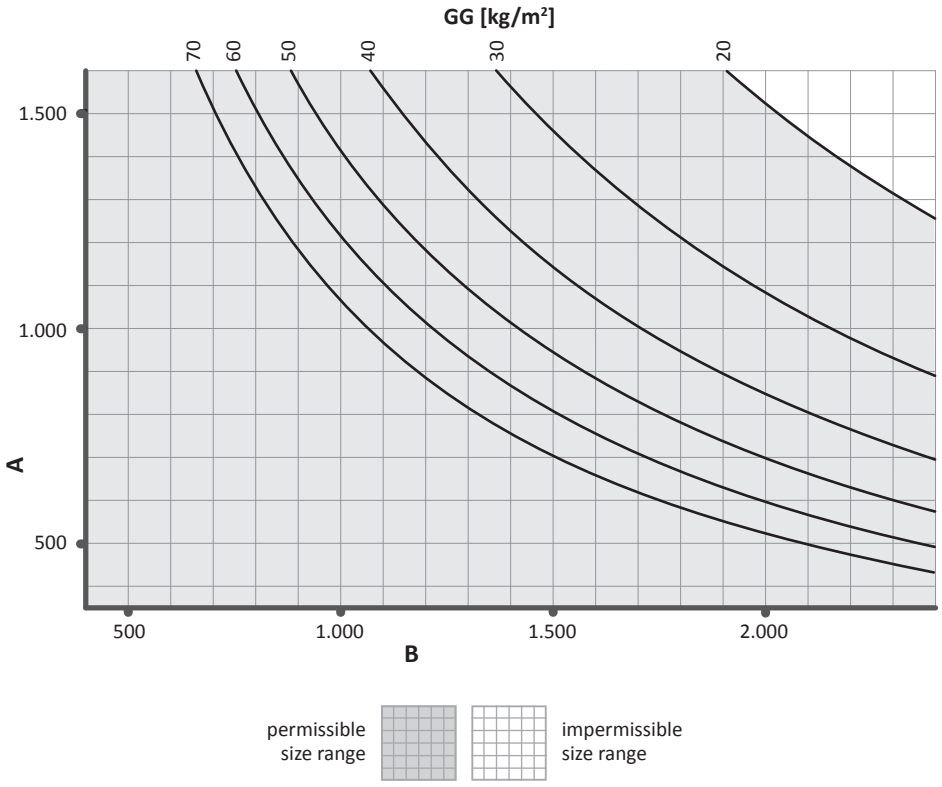
Conditions for the use of the application diagram

- Evidence for fixing structural components
  onto the window system by a window manufacturer
  according to TBDK with the following forces:
  - on the top hinge (N): 4,200
  - on the bottom hinge (N): 4,340
- The following values are to be observed with
  all window systems:
  - max. width/height ratio $Q_{B/H}$: ≤ 2.0
  - glass deduction dimension CG (mm): ≥ 28
  - profile weight PG (kg/m): ≤ 3.25
- Notes on the intended use:
  Basics and use of the application diagrams
  "Download"





- inward and outward opening elements
  A = FFH (sash rebate height [mm])
  B = FFB (sash rebate width [mm])
  GG = glass weight [kg/m²]



permissible size range

impermissible size range

basis for testing and calculation

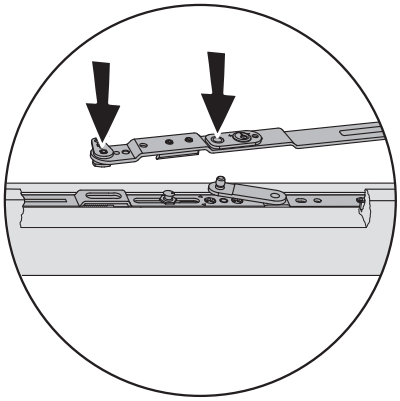
- tilt test according to RAL-GZ 607/12:
  - tilt cycles: 15,000
- additional loads according to RAL-GZ 607/12

Conditions for the use of the application diagram

- Evidence for fixing structural components onto the window system by a window manufacturer.
- the following values are to be observed with all window systems:
  - glass deduction dimension CG (mm): ≥ 28
  - profile weight PG (kg/m): ≤ 3.25
- Notes on the intended use:
  Basics and use of the application diagrams
  "Download"

Stay arm Sz 1

1.



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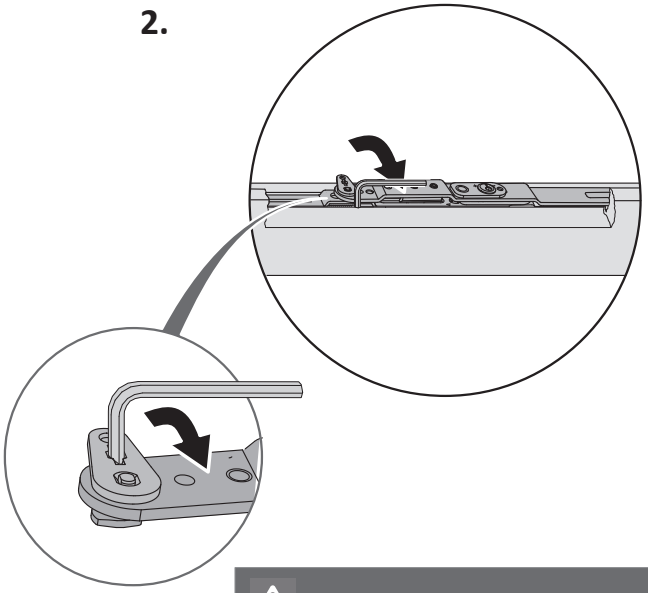

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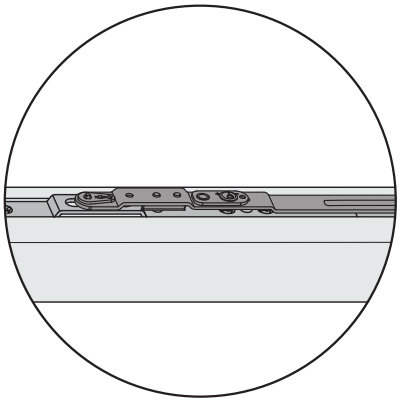


DANGER

Falling sash

If the security plate is not engaged the sash may fall out.

- Noticeable engagement of the security plate in the stay sash part.

Stay arm Sz 2 - Sz 5

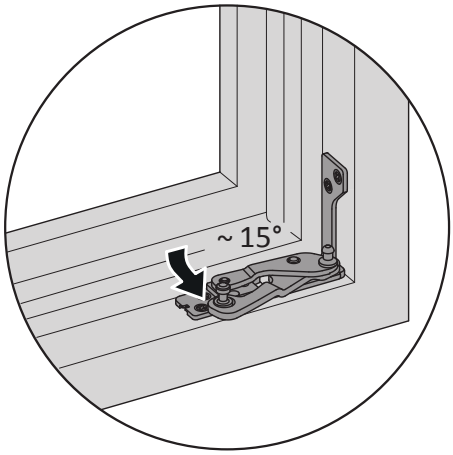
DANGER

Falling sash

If the stop spring is not locked in, the sash may fall out.

- Audible engagement of the stop spring in the stay sash part.

1.



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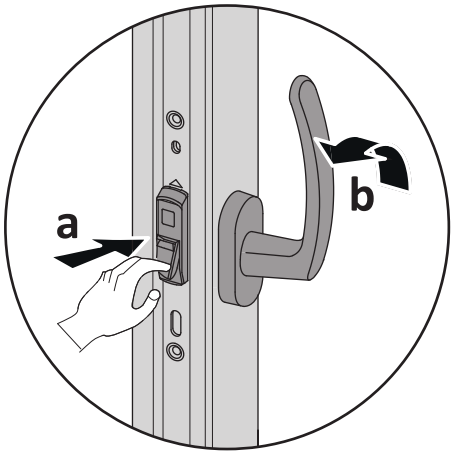

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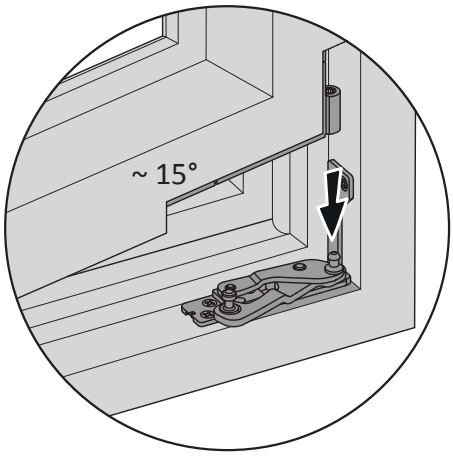

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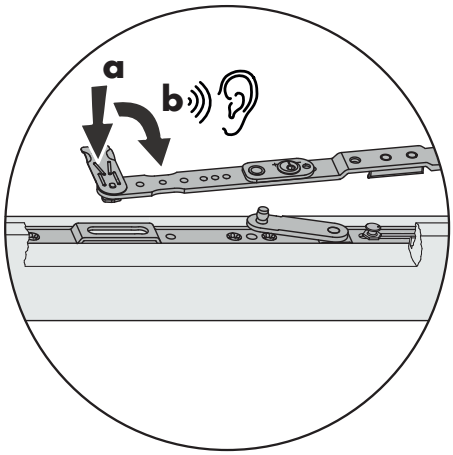

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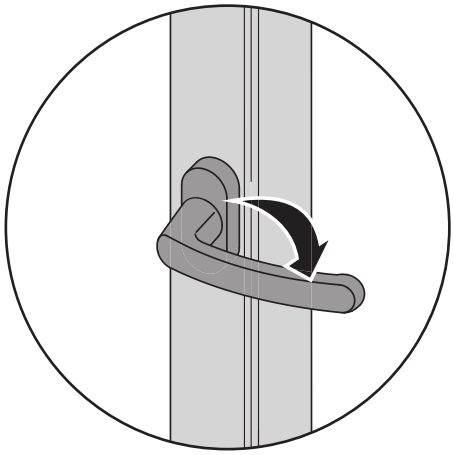

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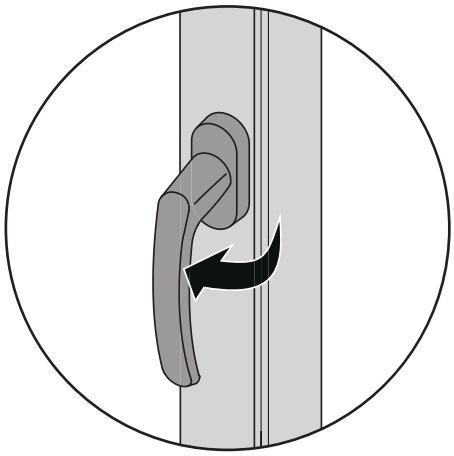

You can find our installation video here:

axxent 24+ Hinging the sash in turning position

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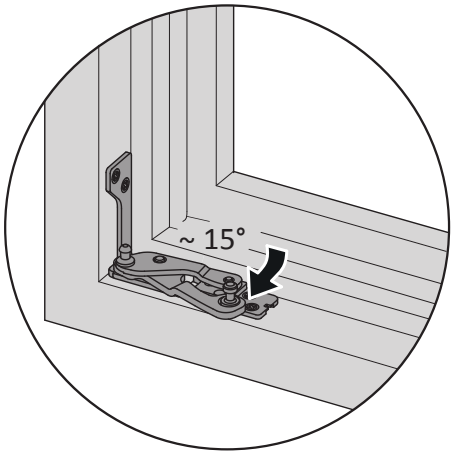

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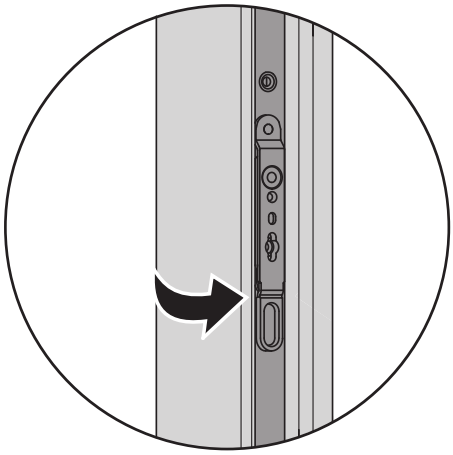

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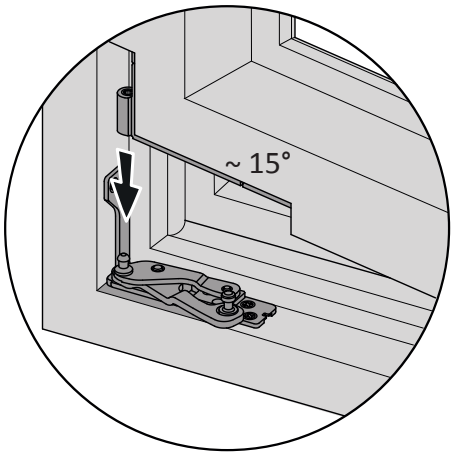

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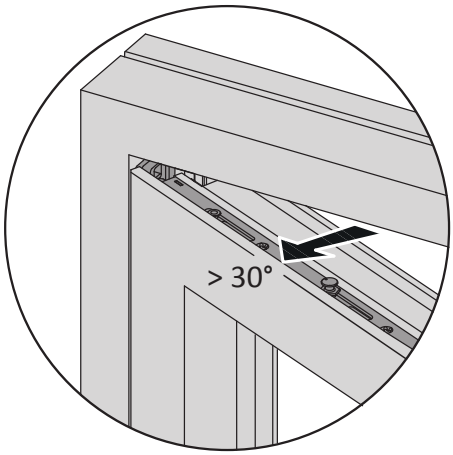

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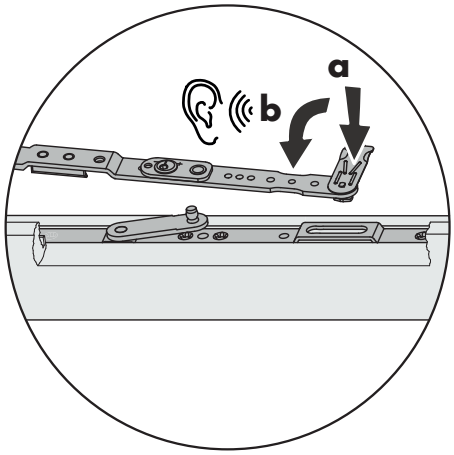

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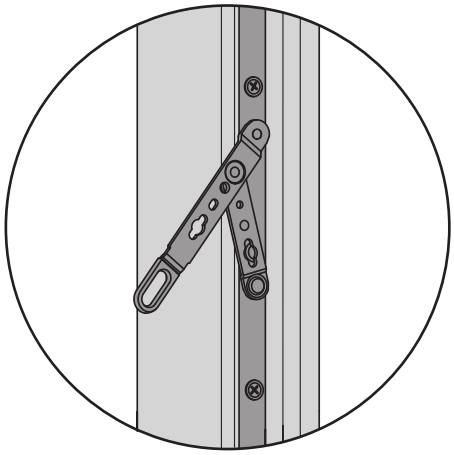

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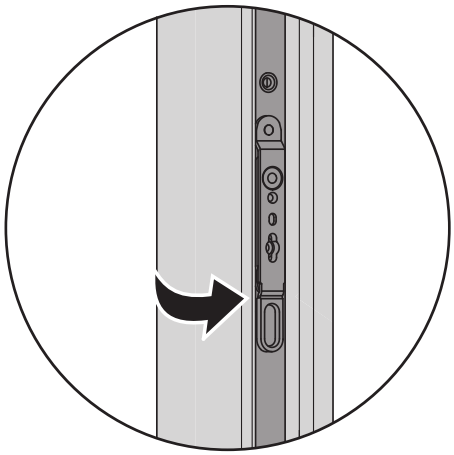

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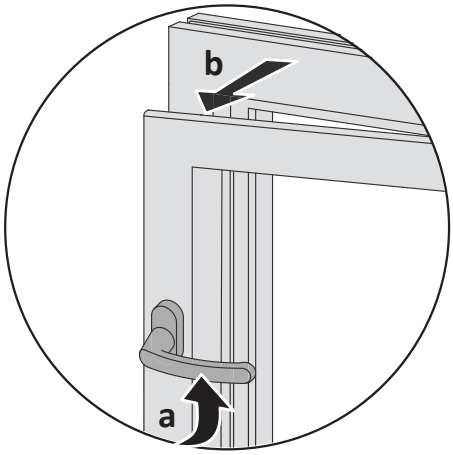

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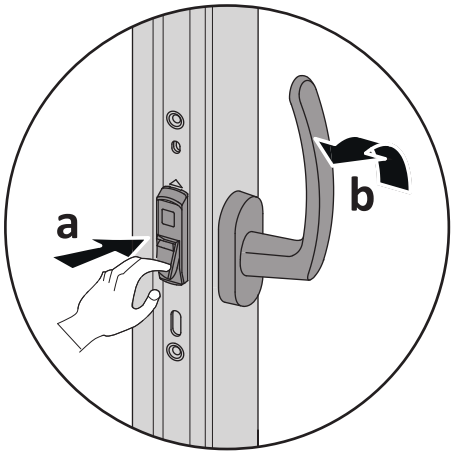

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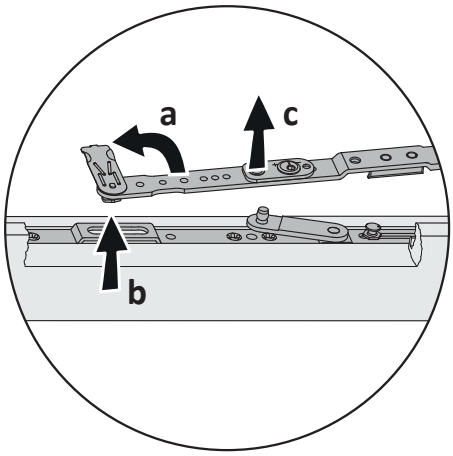

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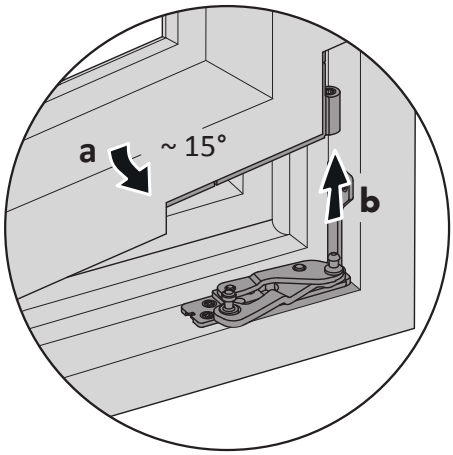

You can find our installation video here:

axxent 24+ Unhinging the sash in turning position

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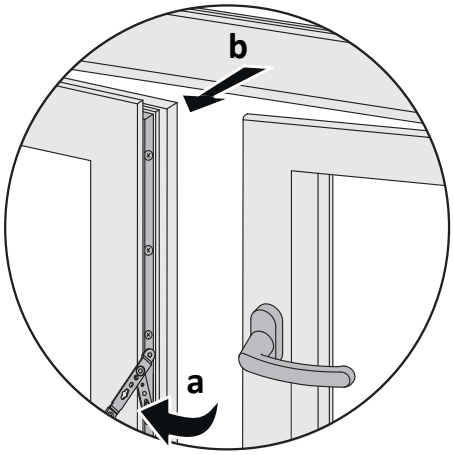

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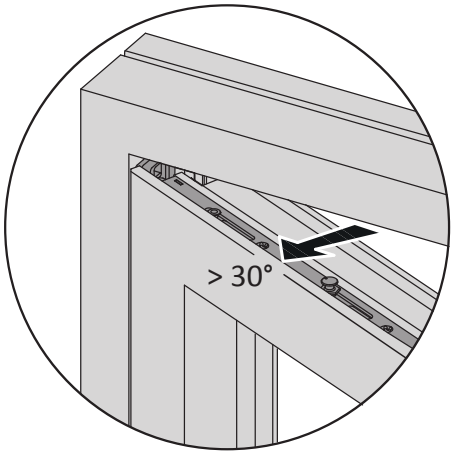

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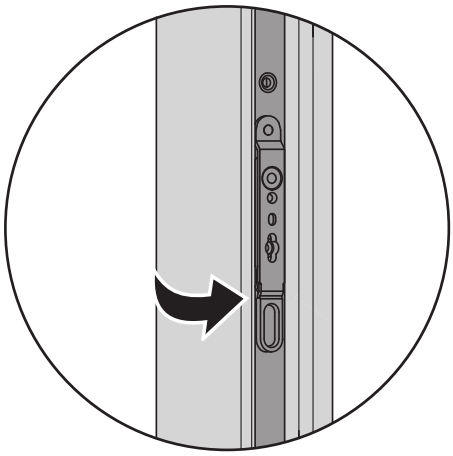

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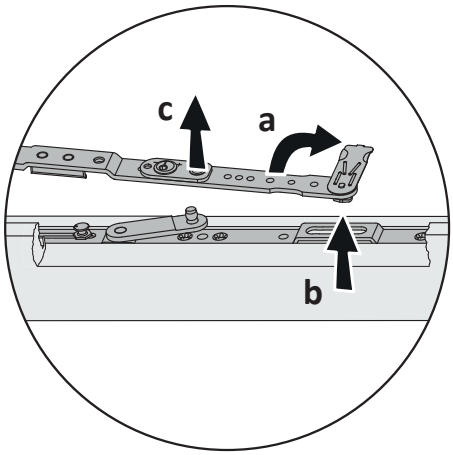

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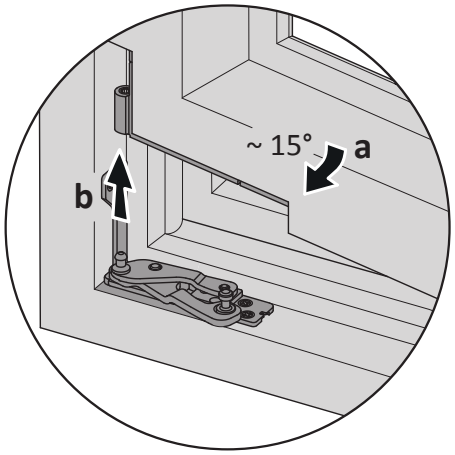

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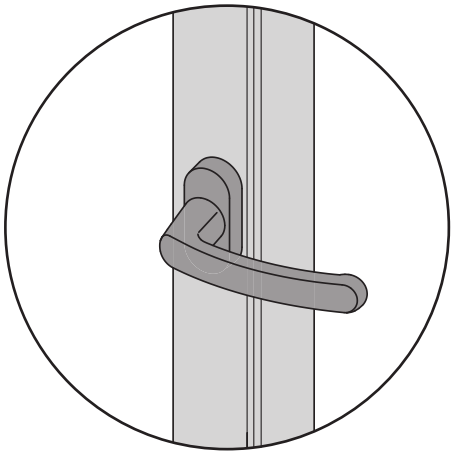

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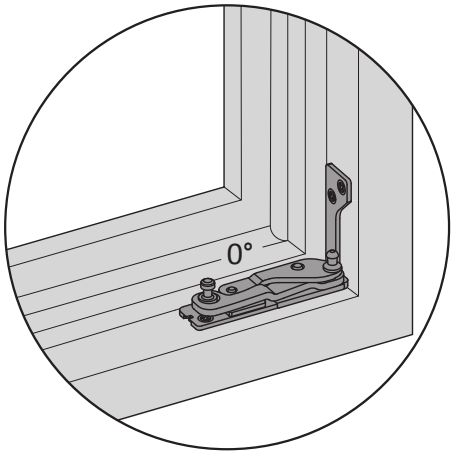

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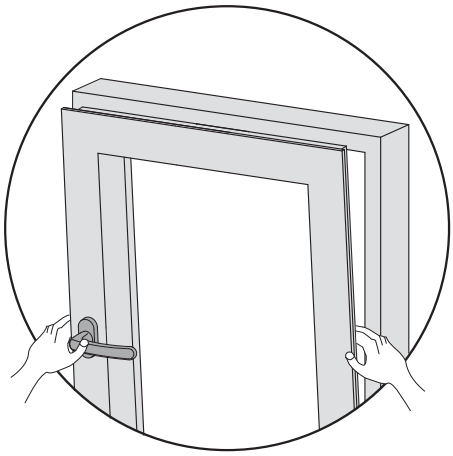

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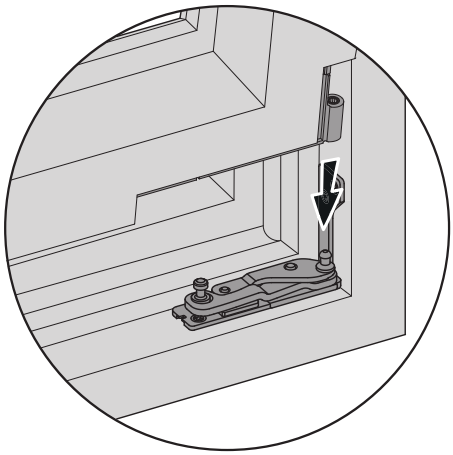

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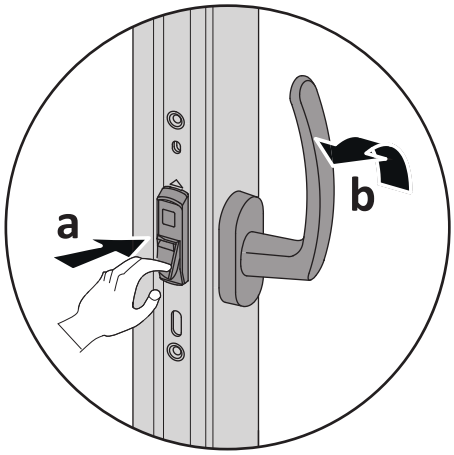

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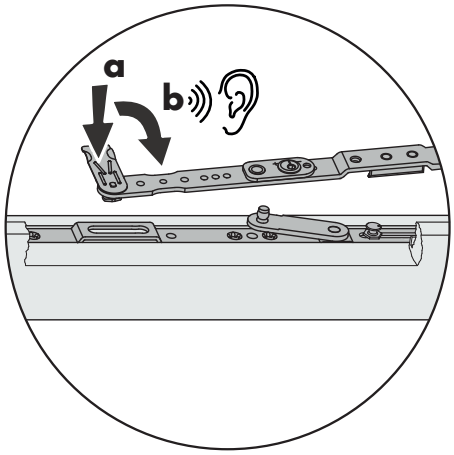

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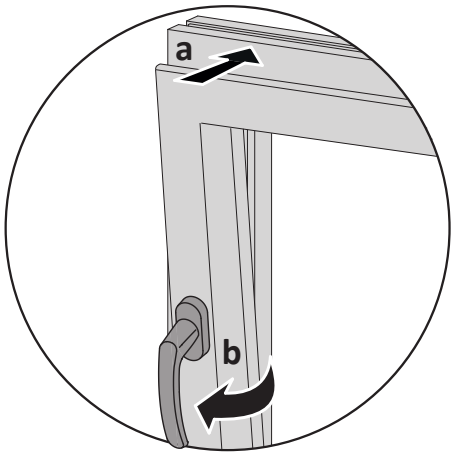


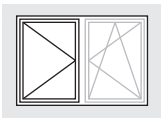
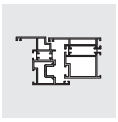
You can find our installation video here:

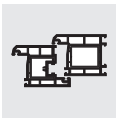
axxent 24+ Hinging the sash in tilt position

Installation information axxent 24+

Hinging the secondary sash

Sash in tilted position parallel to the frame



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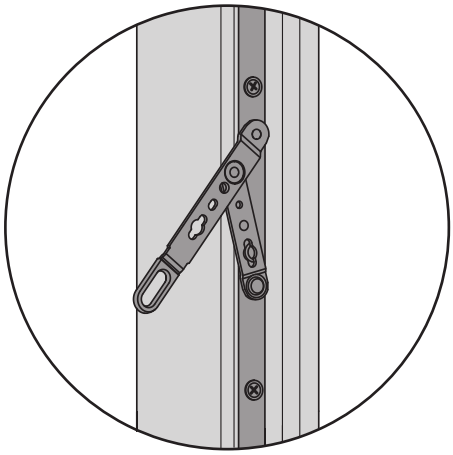

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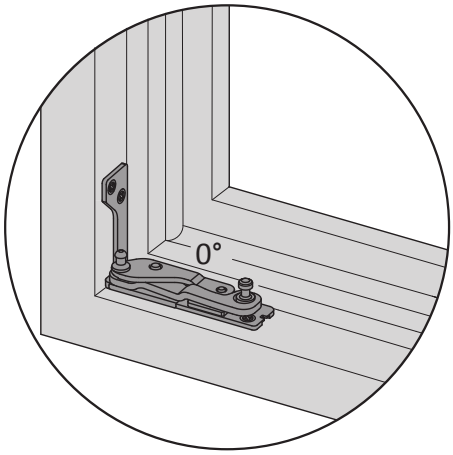

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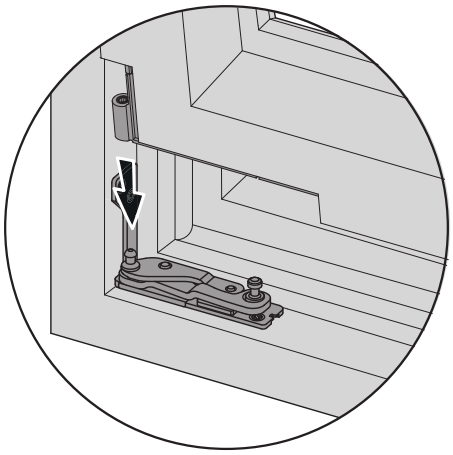

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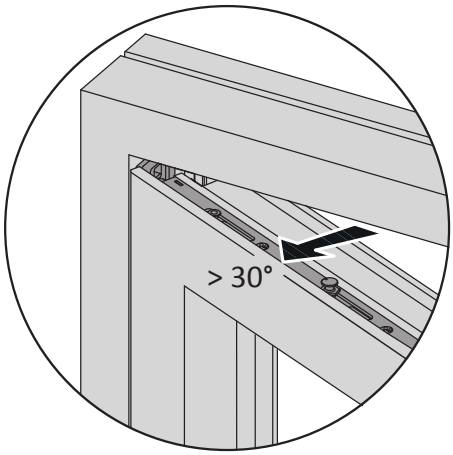

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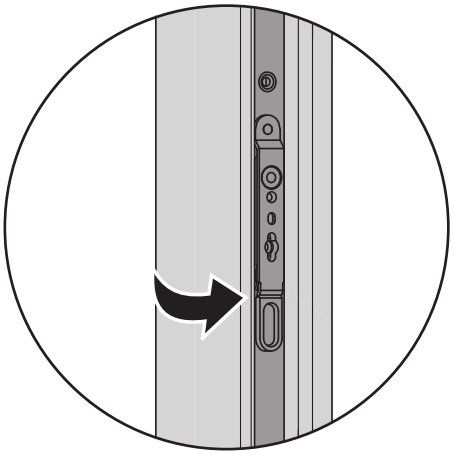

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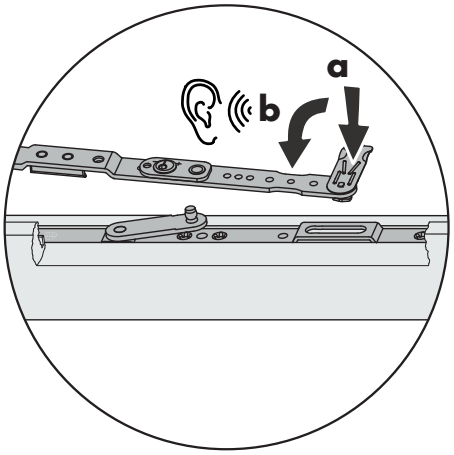

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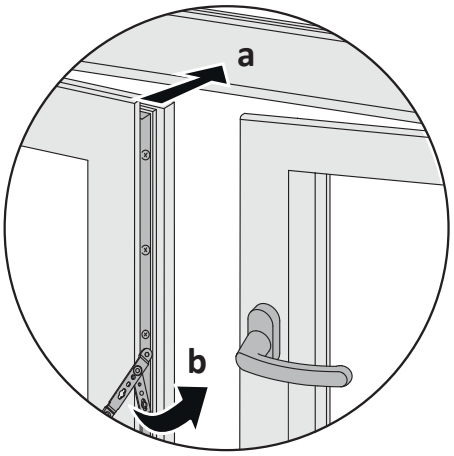

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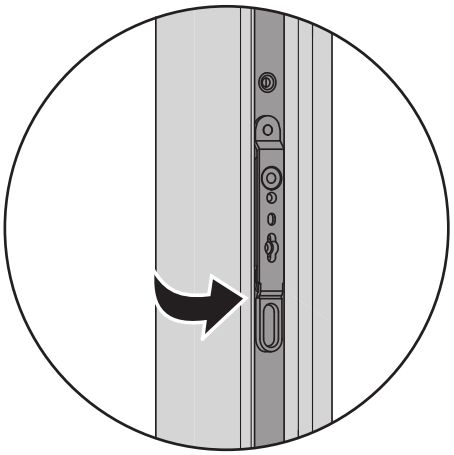

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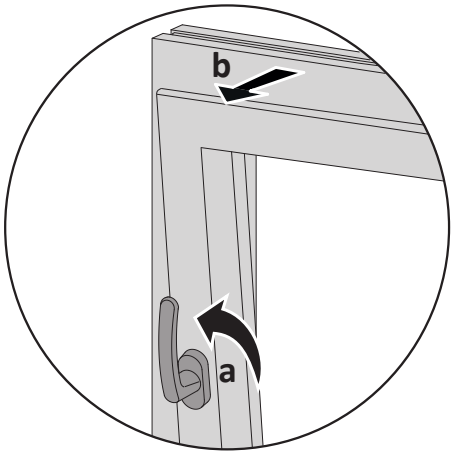

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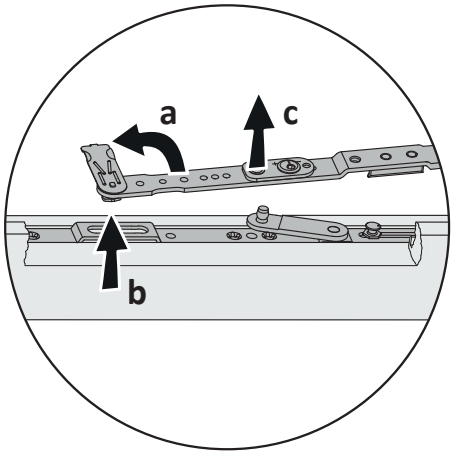

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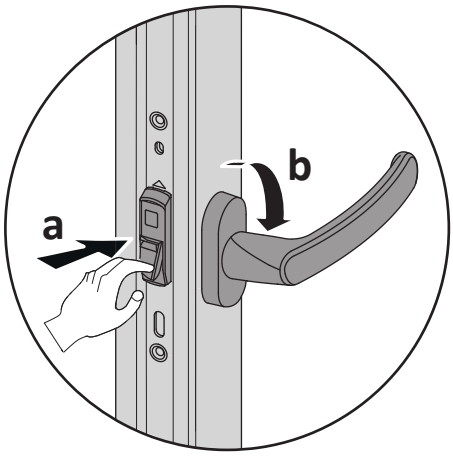

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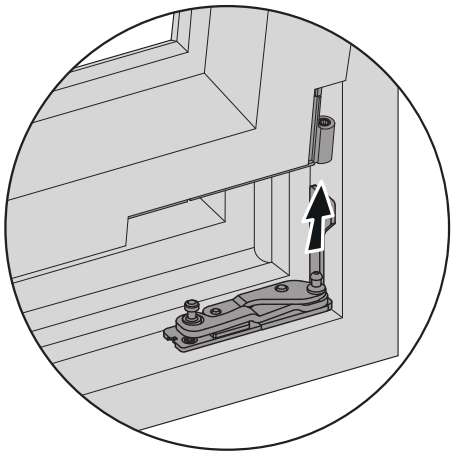


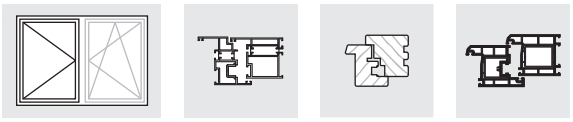
You can find our installation video here:

axxent 24+ Unhinging the sash in tilt position

Installation information axxent 24+

Unhinging the secondary sash

Sash in tilted position parallel to the frame



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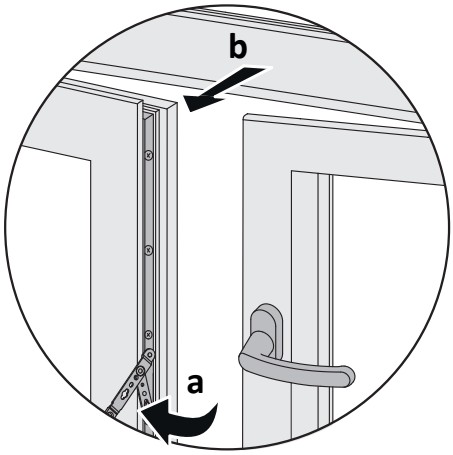

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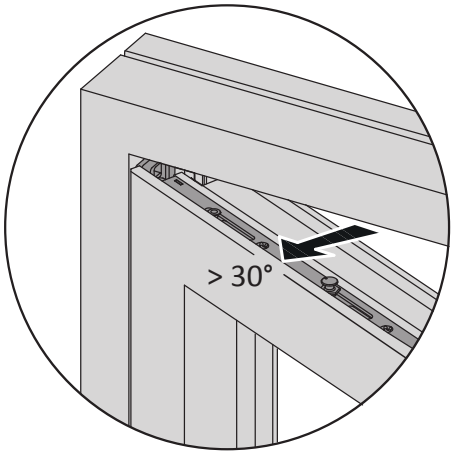

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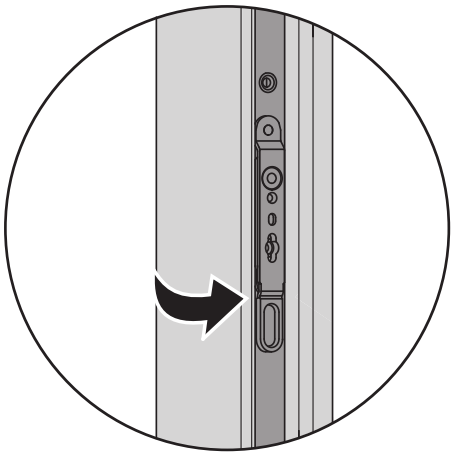

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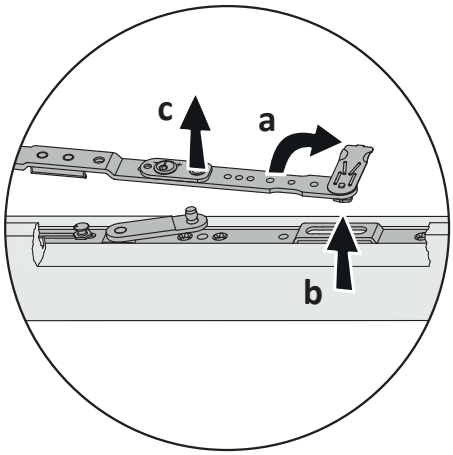

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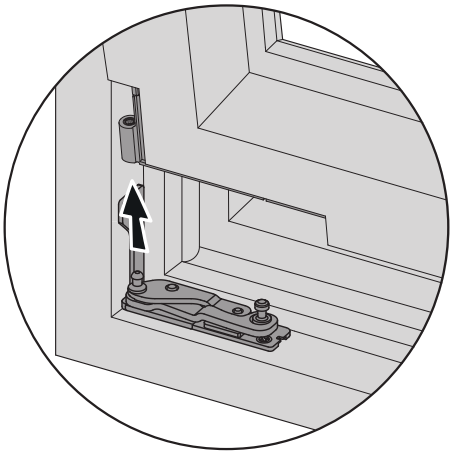

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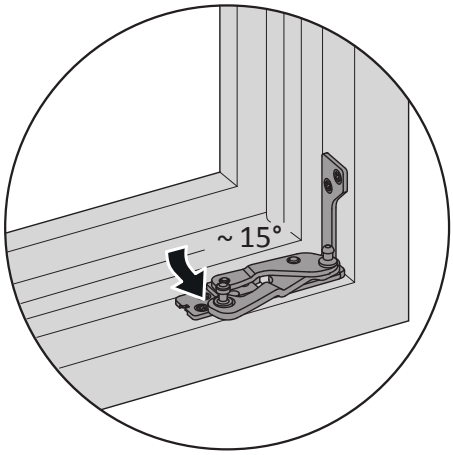

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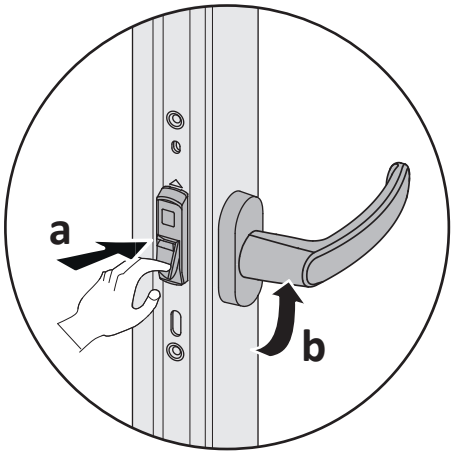

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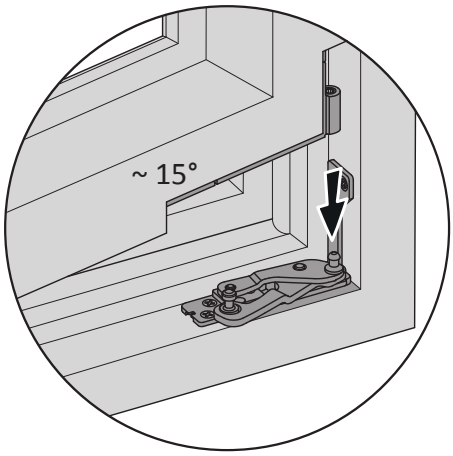

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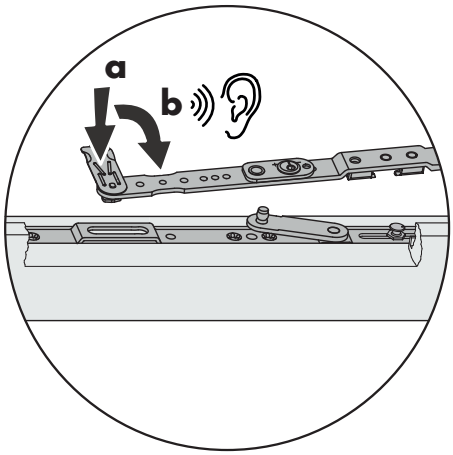

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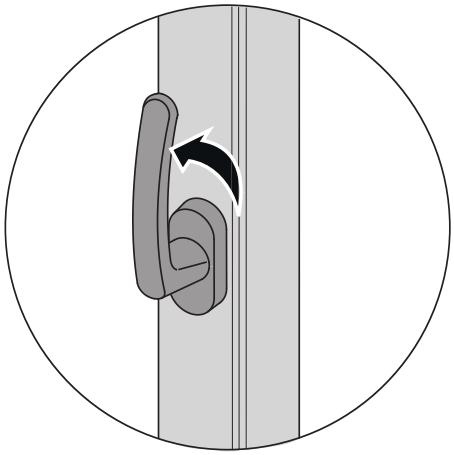

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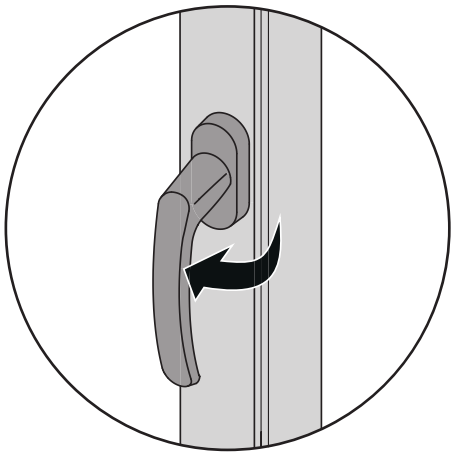

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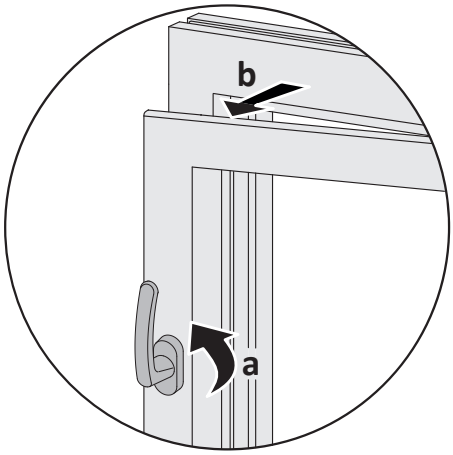

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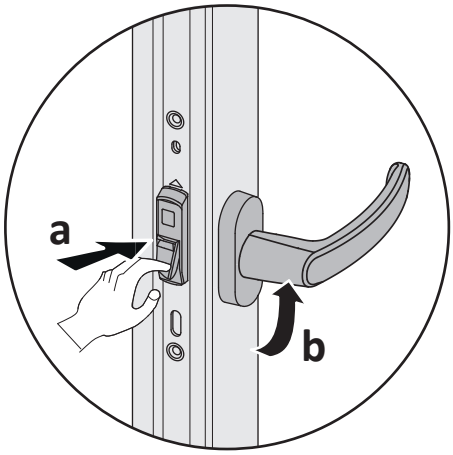

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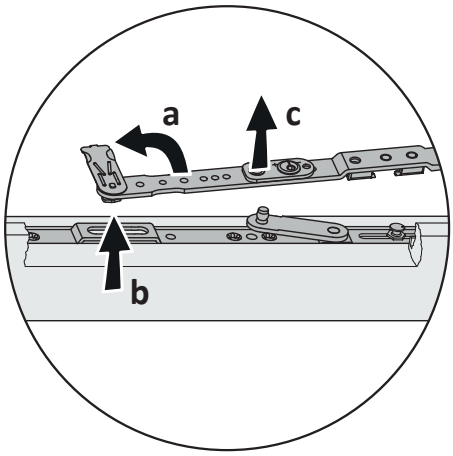

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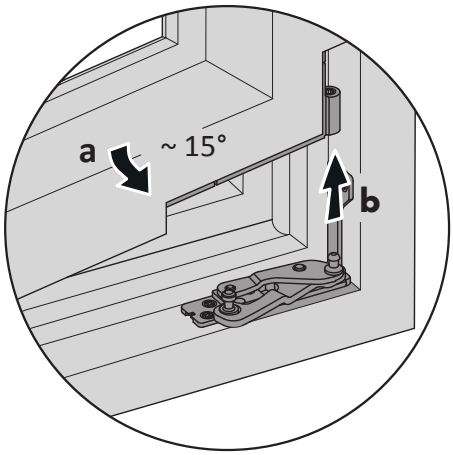

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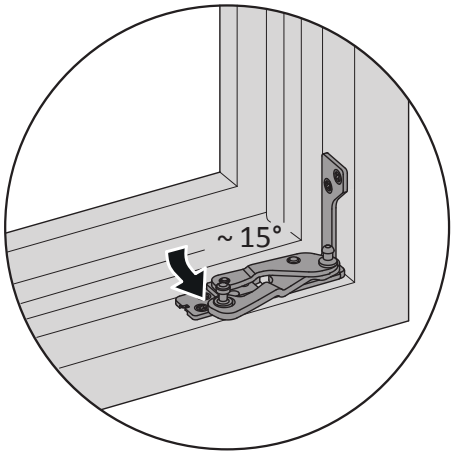

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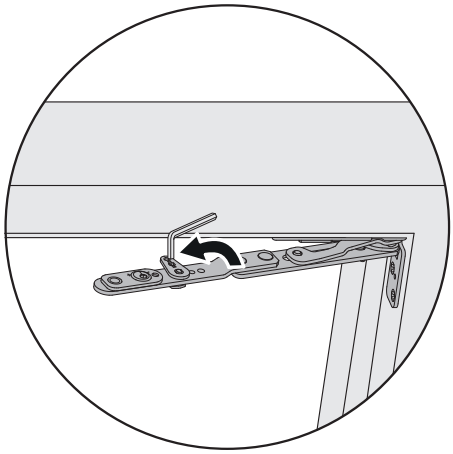

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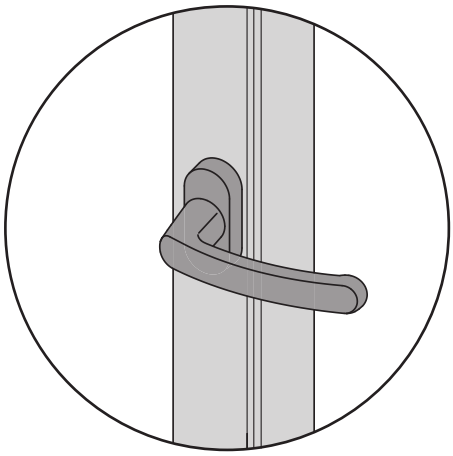

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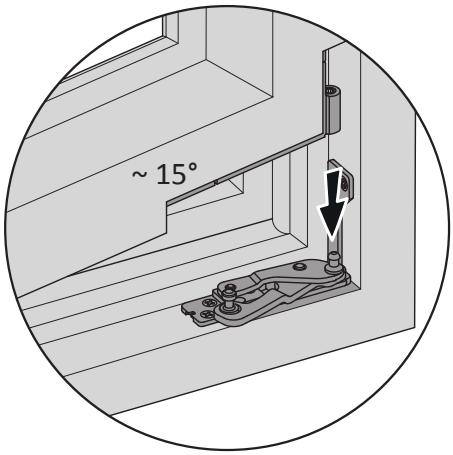

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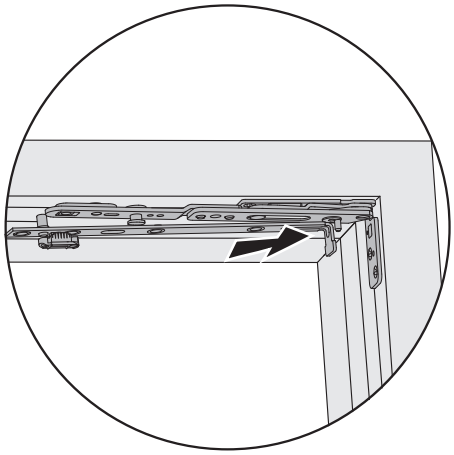

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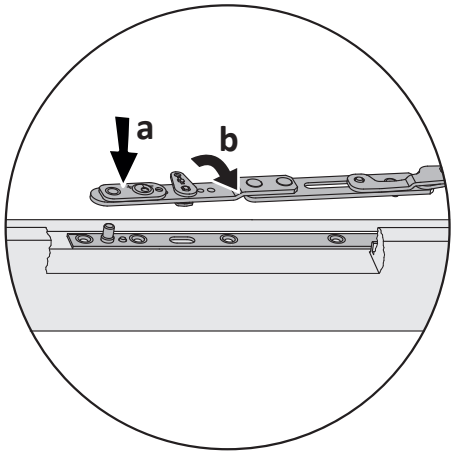
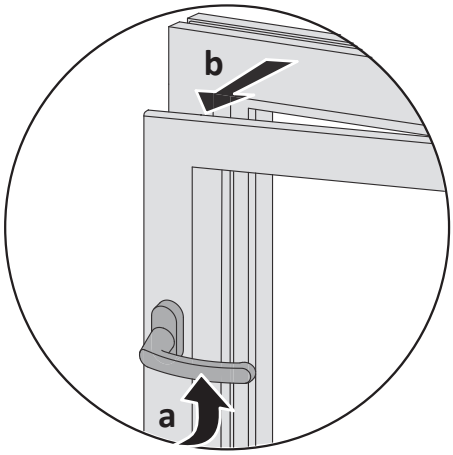


7.

You can find our installation video here:

axxent 24+ Hinging the turning sash

1.



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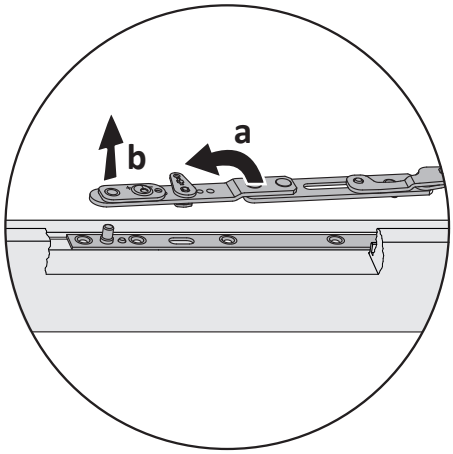

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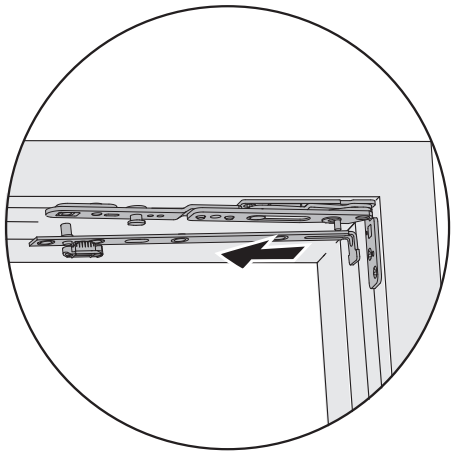

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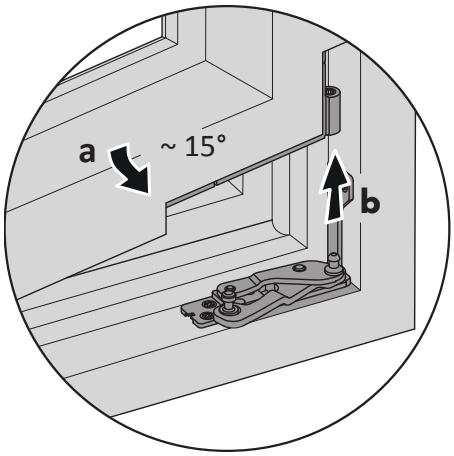


You can find our installation video here:

axxent 24+ Unhinging the turning sash

Bottom inliner

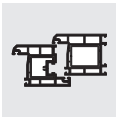
1-sash square tilt-turn	H48.TAFKFK0S036EN	2 - 3
2-sash square tilt-turn/turn DS 16 DK-stay	H48.TAFKFK0S037EN	2 - 9
2-sash square tilt-turn/turn DS 16 DF-stay	H48.TAFKFK0S038EN	2 - 17
3-sash Centre sash second opening turn	H48.TAFKFK0S039EN	2 - 25
Tilt before turn (TBT)		
1-sash square tilt before turn (TBT)	H48.TAFKFK0S041EN	2 - 29
Turning sash		
1-sash square turn	H48.TAFKFK0S040EN	2 - 35

Bottom double cam SB R-RS

1-sash square tilt-turn	H48.TAFKFK0S405EN	2 - 37
2-sash square tilt-turn/turn DS 16 DK-stay	H48.TAFKFK0S406EN	2 - 43
2-sash square tilt-turn/turn DS 16 DF-stay	H48.TAFKFK0S407EN	2 - 51
3-sash Centre sash second opening turn	H48.TAFKFK0S409EN	2 - 59
Turning sash		
1-sash square turn	H48.TAFKFK0S408EN	2 - 63
Locking-points distance 700		
1-sash square tilt-turn	H48.TAFKFK0S305EN	2 - 67
2-sash square tilt-turn/turn DS 16 DK-stay	H48.TAFKFK0S306EN	2 - 73
2-sash square tilt-turn/turn DS 16 DF-stay	H48.TAFKFK0S307EN	2 - 81

TITAN AF

Installation instructions



GS

1-sash square tilt-turn

PVC

basic security

fixed handle position

Hinge side axxent 24+

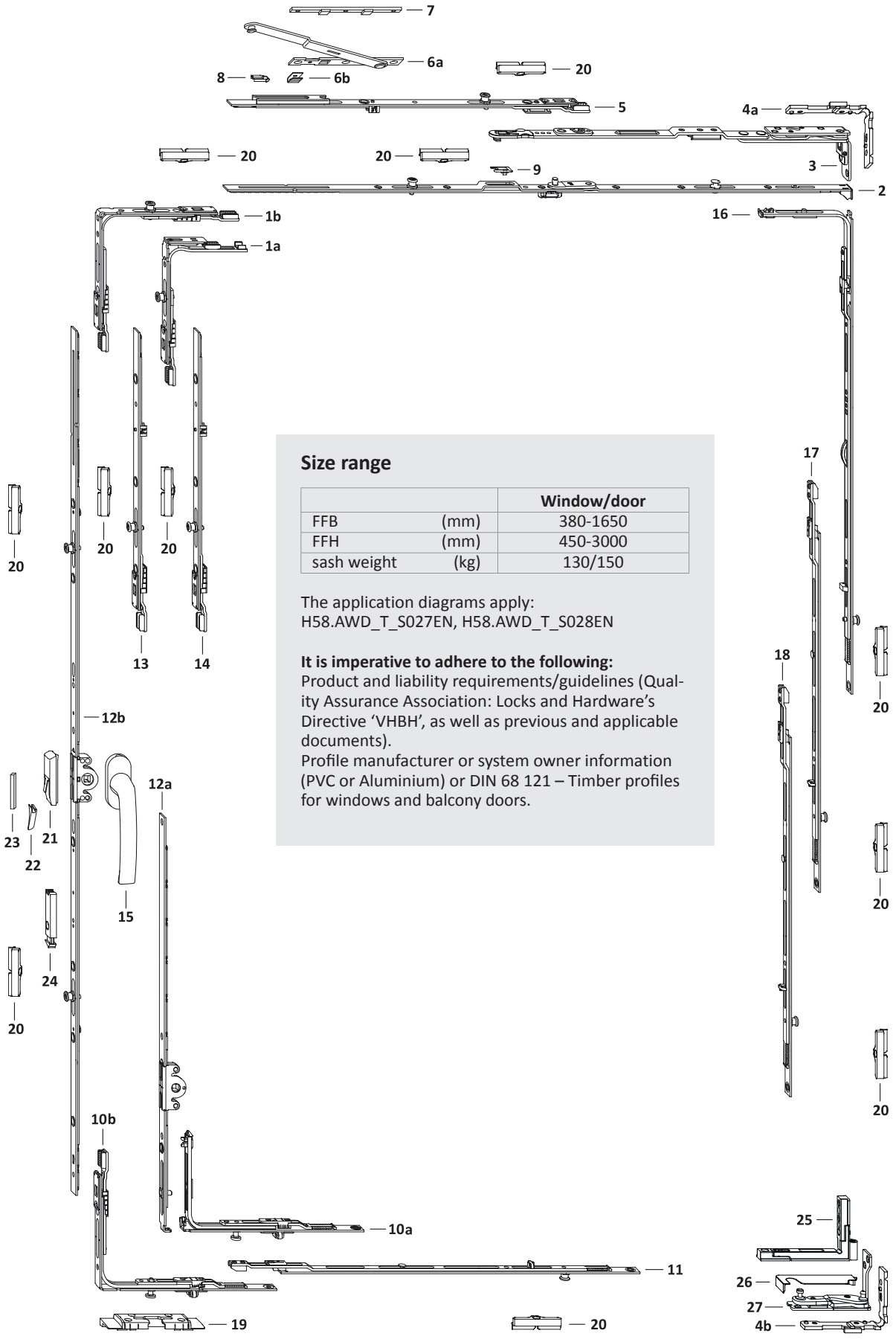
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS

hardware layout

1-sash square tilt-turn
PVC GK Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
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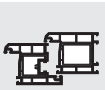
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

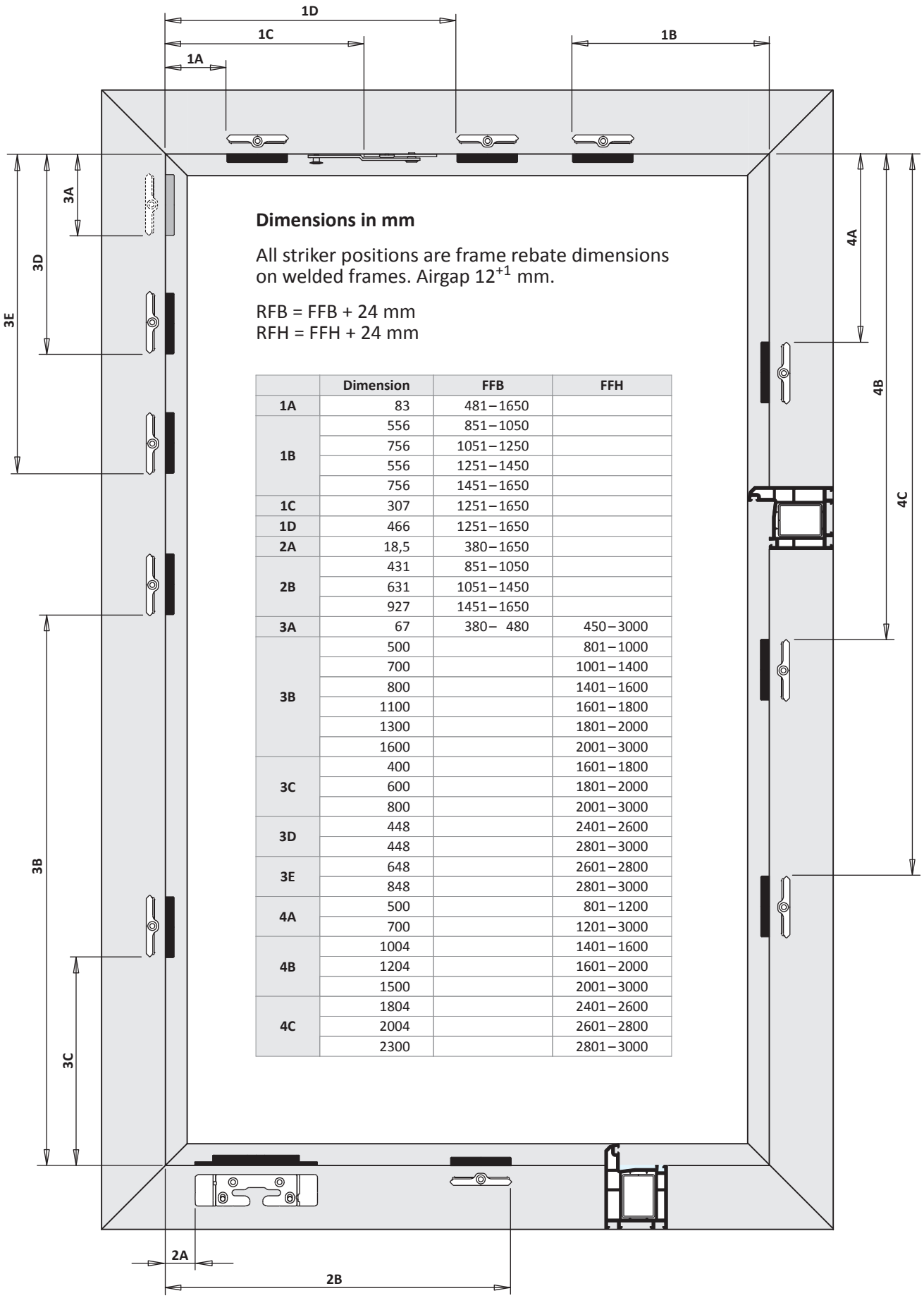
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							19	20
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	380– 480				1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	380– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	380– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	450– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	450– 900			
10a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	380–1250	450– 600		1	
10b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	380–1650	601–3000		1	
11	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
12a	gear 15 sz 30/G180	TGKK3010- ...	1	380–1250	450– 600	180		
12b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		2
13	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			1
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
14	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
15	handle Globe	Ref.access. ZHGS	1		450–3000			
16	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
19	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
20	striker plate S 56	Ref. PDB, TRSM						
on request								
21	mishandling device	TFBS0010- ...	1					
22	pressure piece	Ref. PDB, TFFD	1					
23	stop	Ref. PDB, FRZF01	1					
24	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

List of fittings

1-sash square tilt-turn
PVC GK Hinge side axxent 24+



Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
25	corner hinge AX	Ref. PDB, TBEB41		1	1
26	cover cap AX EL	Ref. PDB, TKEL41		1	1
27	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

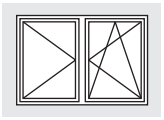
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

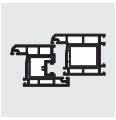
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	380–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	380– 480	450–3000
3B	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3C	400		1601–1800
	600		1801–2000
	800		2001–3000
3D	448		2401–2600
	448		2801–3000
3E	648		2601–2800
	848		2801–3000
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

fixed handle position

Hinge side axxent 24+

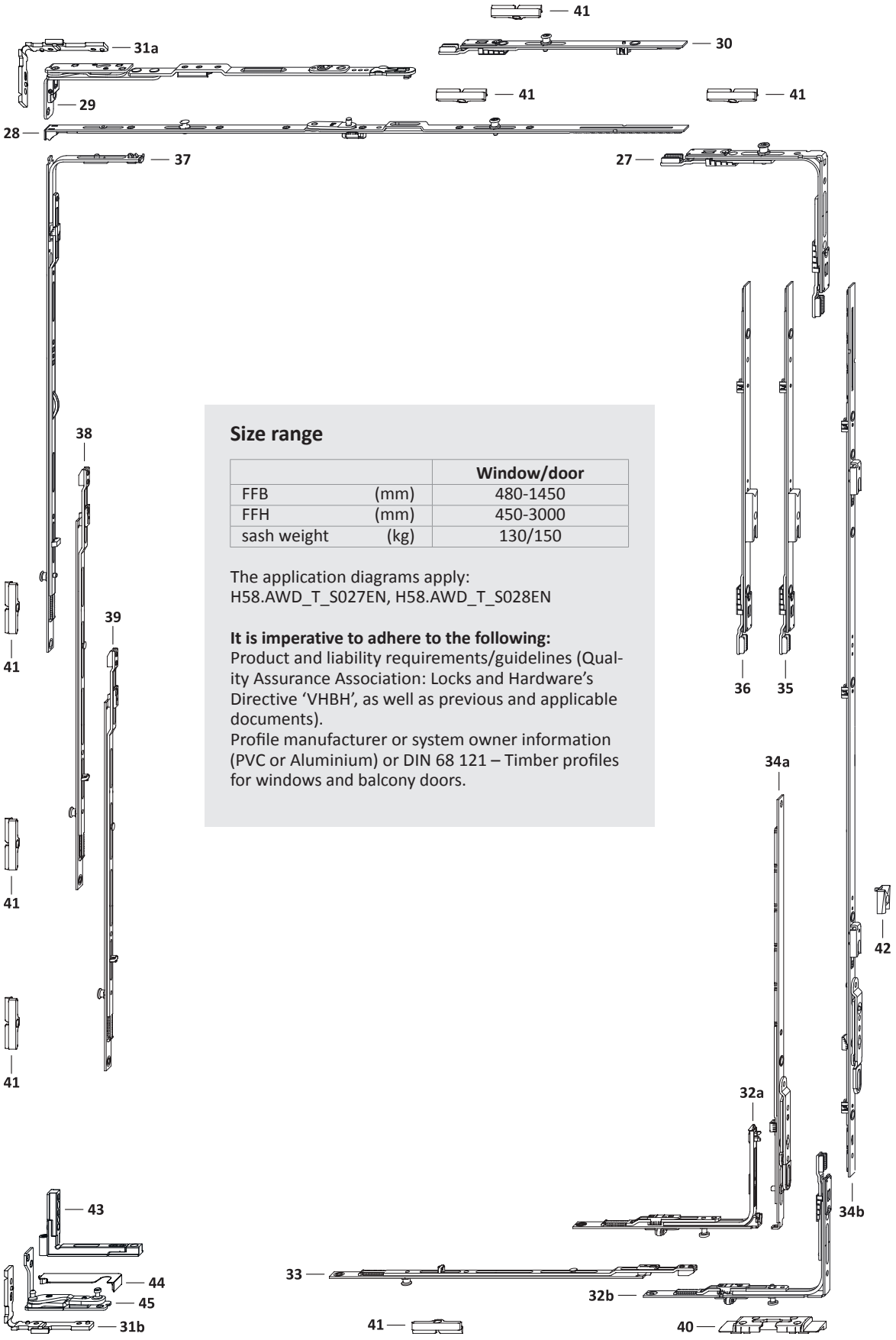
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800; secondary sash with DK-stay
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	480-1450
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

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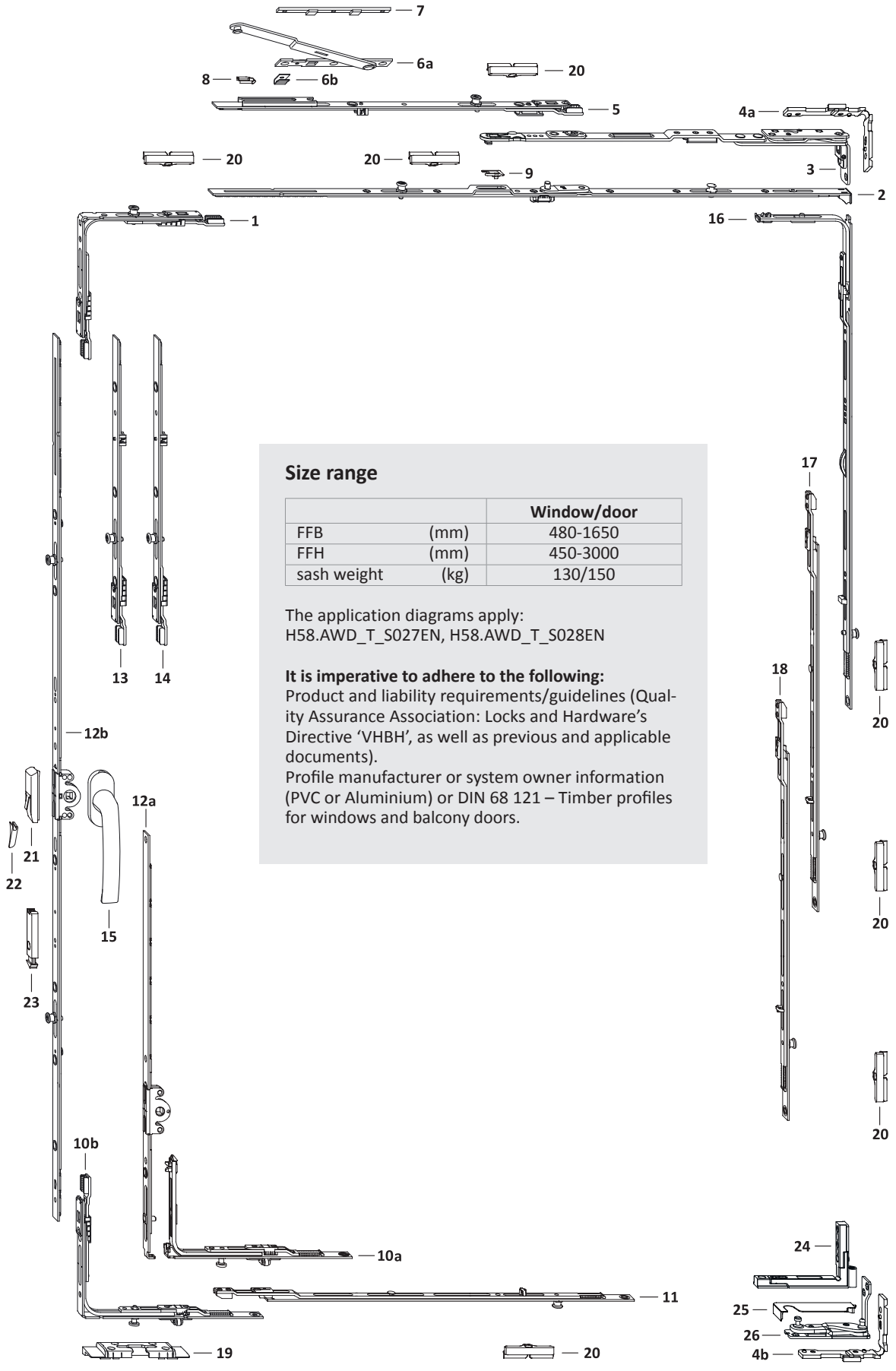

Size range

		Window/door
FFB	(mm)	480-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

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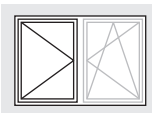
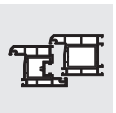
List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	40	41
27	corn.drive VSO 1RS	TEUL4010- ...	1	480–1450				1
28	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1450				1
29	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1450				
30	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
31	crt. accessories AX	Ref. PDB, TMZV41	1	1251–1450				
32a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	480–1450	450– 800		1	
32b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	480–1450	801–3000		1	
33	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
34a	sec.sash gear 16 sz 30	TGKS0010- ...	1	480–1250	450– 600	180		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300		
34b	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400		
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500		
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600		
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401–1600	700		
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700		
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000		
	sec.sash gear 16AF200/G10002SB	TGKS4110- ...			2001–3000	1000		
35	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2401–2600			
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
36	linkage AF sz 2 1SB-RS	TZKS1030- ...	1		2601–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
37	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
38	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
39	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
40	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
41	striker plate S 56	Ref. PDB, TRSM						
on request								
42	striker snapper AF A0767	TRST0100- ...	1		1801–3000			

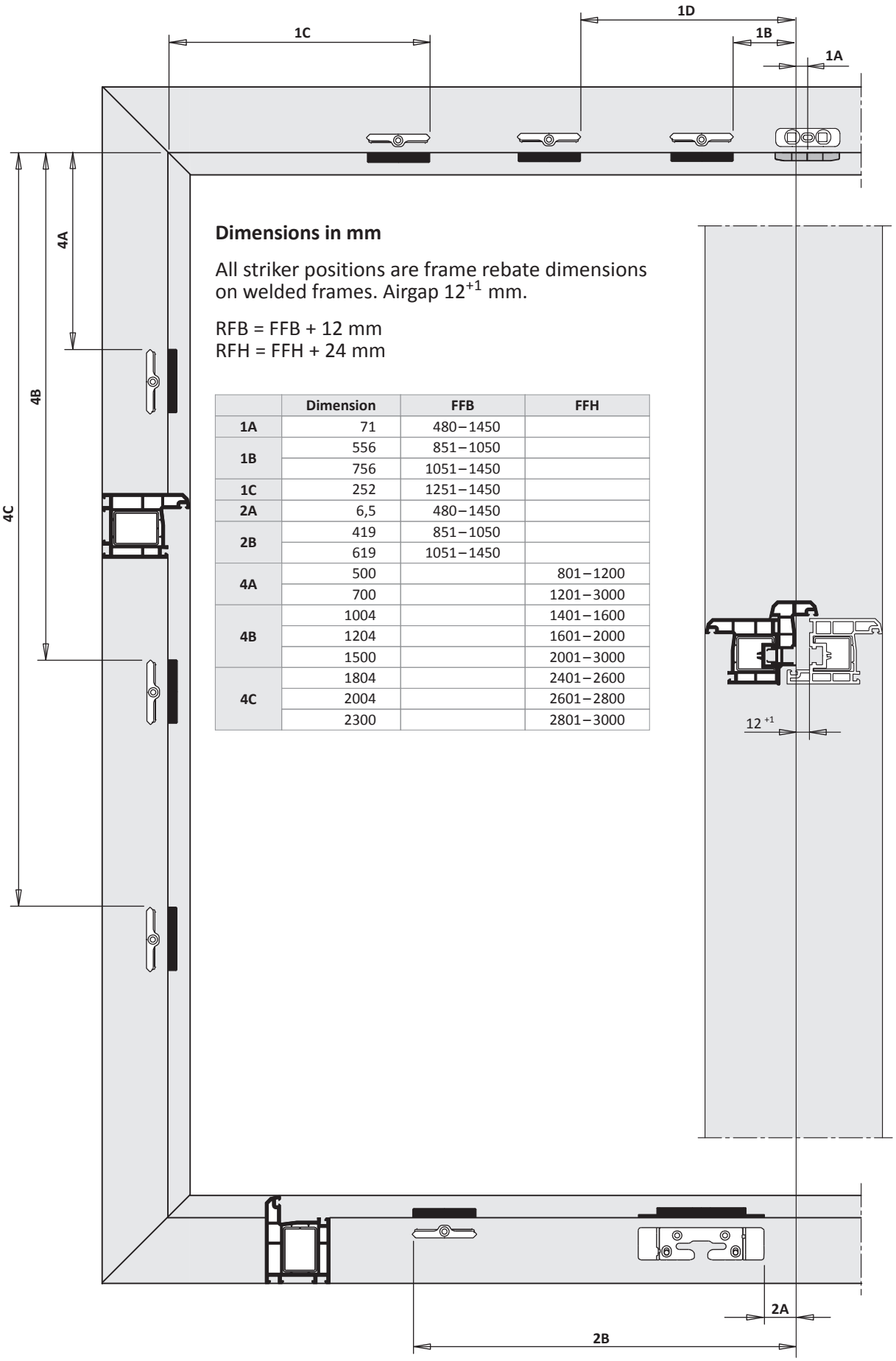
Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
43	corner hinge AX	Ref. PDB, TBEB41		1	1
44	cover cap AX EL	Ref. PDB, TKEL41		1	1
45	bottom hinge AX	Ref. PDB, TBEV41		1	1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							19	20
1	corn.drive VSO 1RS	TEUL4010- ...	1	480–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	480–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	450– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	450– 900			
10a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	480–1250	450– 600		1	
10b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	480–1650	601–3000		1	
11	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
12a	gear 15 sz 30/G180	TGKK3010- ...	1	480–1250	450– 600	180		
12b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		
13	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
14	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
15	handle Globe	Ref.access. ZHGS	1		450–3000			
16	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
19	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
20	striker plate S 56	Ref. PDB, TRSM						
on request								
21	mishandling device	TFBS0010- ...	1		601–3000			
22	pressure piece	Ref. PDB, TFFD	1		601–3000			
23	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
24	corner hinge AX	Ref. PDB, TBEB41		1	1
25	cover cap AX EL	Ref. PDB, TKEL41		1	1
26	bottom hinge AX	Ref. PDB, TBEV41		1	1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+

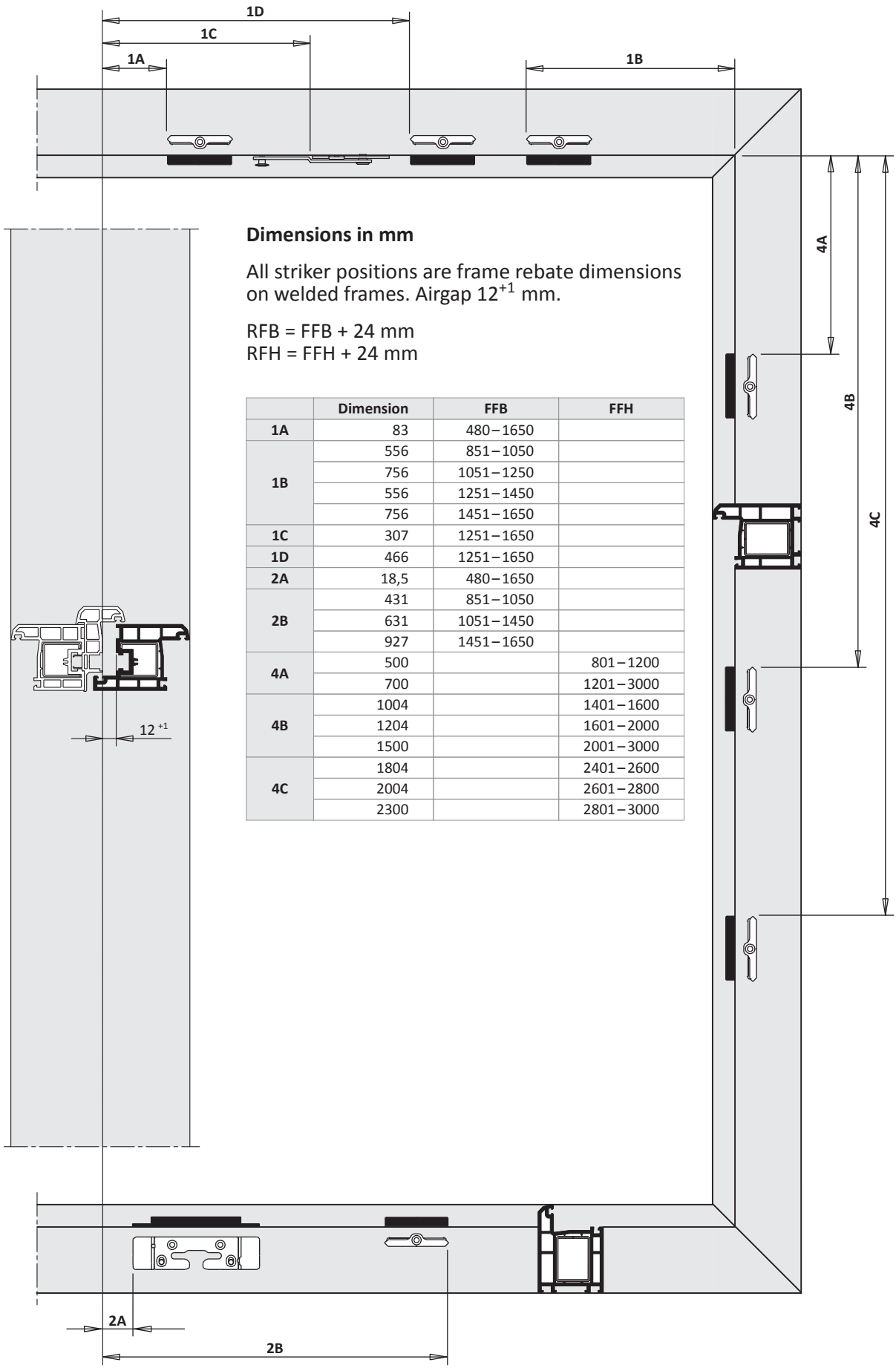


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	480–1450	
1B	556	851–1050	
	756	1051–1450	
1C	252	1251–1450	
2A	6,5	480–1450	
2B	419	851–1050	
	619	1051–1450	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000



Dimensions in mm

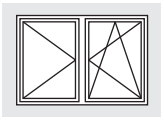
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	480–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

fixed handle position

Hinge side axxent 24+

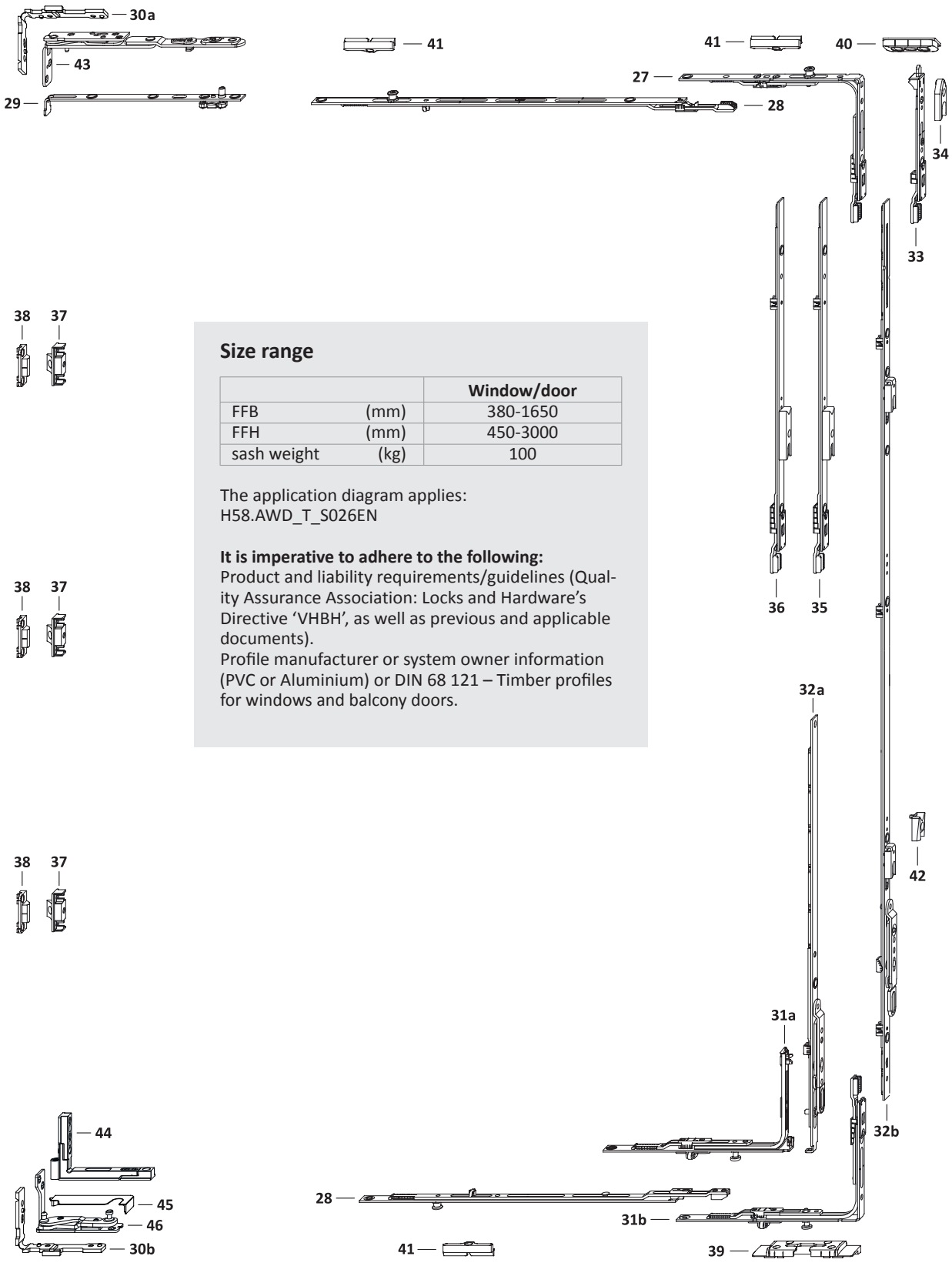
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+

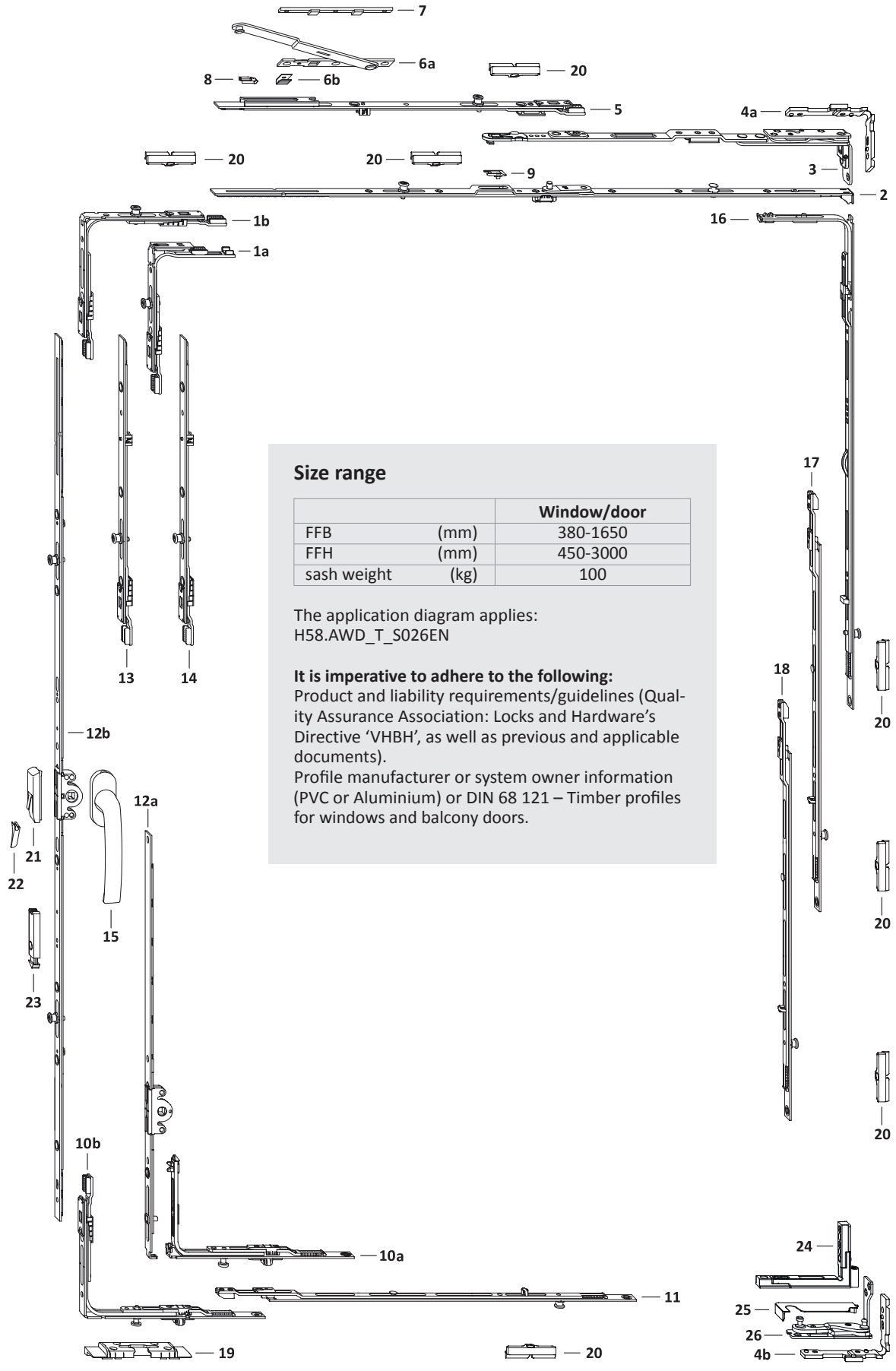


Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	450-3000
sash weight	(kg)	100

The application diagram applies:
H58.AWD_T_S026EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

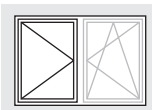
		Window/door
FFB	(mm)	380-1650
FFH	(mm)	450-3000
sash weight	(kg)	100

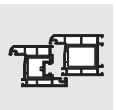
The application diagram applies:
H58.AWD_T_S026EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
						In the main sash	39	40	41
27	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	481–1650					1
28	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851–1050					2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					2
29	stay sash part DF AX	TSSV3020- ...	1	380–1650					
30	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650					
31a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	380–1650	450– 800		1		
31b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	380–1650	801–3000		1		
32a	sec.sash gear 16 sz 30	TGKS0010- ...	1	380–1250	450– 600	180			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300			
32b	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400			
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500			
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600			
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401–1600	700			
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700			
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000			
	sec.sash gear 16AF200/G10002SB	TGKS4110- ...			2001–3000	1000			
33	locking bolt AF VSO RSA 11	TESC2030- ...	1	380– 480	450–3000			1	
34	striker plate A0767	TRSA0010- ...	1	380– 480	450–3000				
35	linkage AF sz 1	TZZS0150- ...	1		2201–2400				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2401–2600				
	linkage AF sz 1	TZZS0150- ...			2601–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
36	linkage AF sz 2 1SB-RS	TZKS1030- ...	1		2601–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
37	sash part MV	Ref. PDB, ZFMV01	1		801–1600				
	sash part MV	Ref. PDB, ZFMV01	2		1601–2400				
	sash part MV	Ref. PDB, ZFMV01	3		2401–3000				
38	frame part MV	Ref. PDB, ZRZM01	1		801–1600				
	frame part MV	Ref. PDB, ZRZM01	2		1601–2400				
	frame part MV	Ref. PDB, ZRZM01	3		2401–3000				
39	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
40	striker V	Ref. PDB, FRZV01							
41	striker plate S 56	Ref. PDB, TRSM							
on request									
42	striker snapper AF A0767	TRST0100- ...	1		1801–3000				

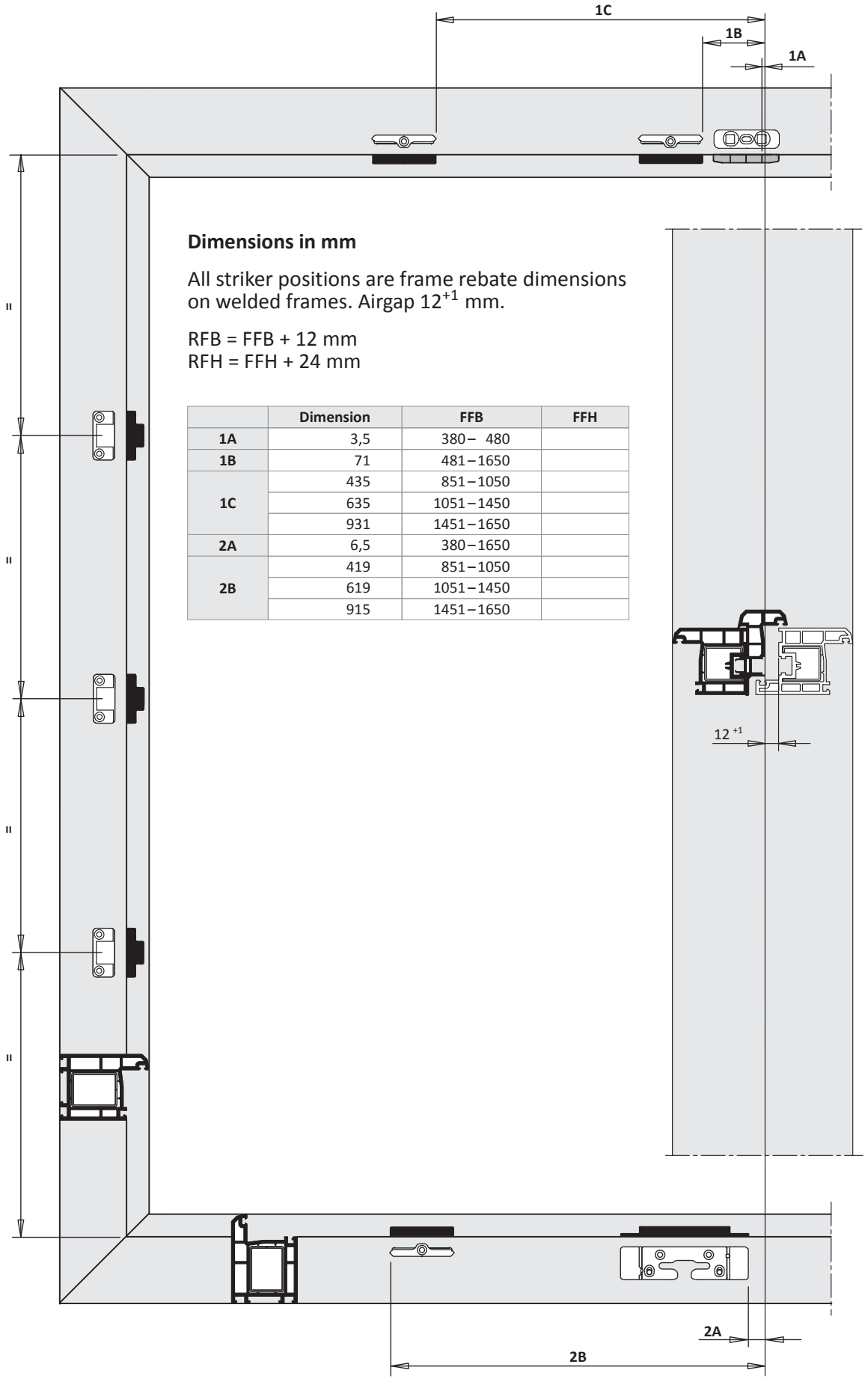
Hinge side turning points				
Pos.	Description	Part number		required as per sash weight
		surface TS	RAL7037	100 kg
43	stay arm AX DF	Ref. PDB, TSAV46		1
44	corner hinge AX	Ref. PDB, TBEB41		1
45	cover cap AX EL	Ref. PDB, TKEL41		1
46	bottom hinge AX	Ref. PDB, TBEV41		1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							19	20
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	380– 480				
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	380– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	380– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	450– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	450– 900			
10a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	380–1250	450– 600		1	
10b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	380–1650	601–3000		1	
11	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
12a	gear 15 sz 30/G180	TGKK3010- ...	1	380–1250	450– 600	180		
12b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		
13	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
14	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
15	handle Globe	Ref.access. ZHGS	1		450–3000			
16	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
19	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
20	striker plate S 56	Ref. PDB, TRSM						
	on request							
21	mishandling device	TFBS0010- ...	1		601–3000			
22	pressure piece	Ref. PDB, TFFD	1		601–3000			
23	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

Hinge side turning points				
Pos.	Description	Part number		required as per sash weight
		surface TS	RAL7037	100 kg
24	corner hinge AX	Ref. PDB, TBEB41		1
25	cover cap AX EL	Ref. PDB, TKEL41		1
26	bottom hinge AX	Ref. PDB, TBEV41		1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+

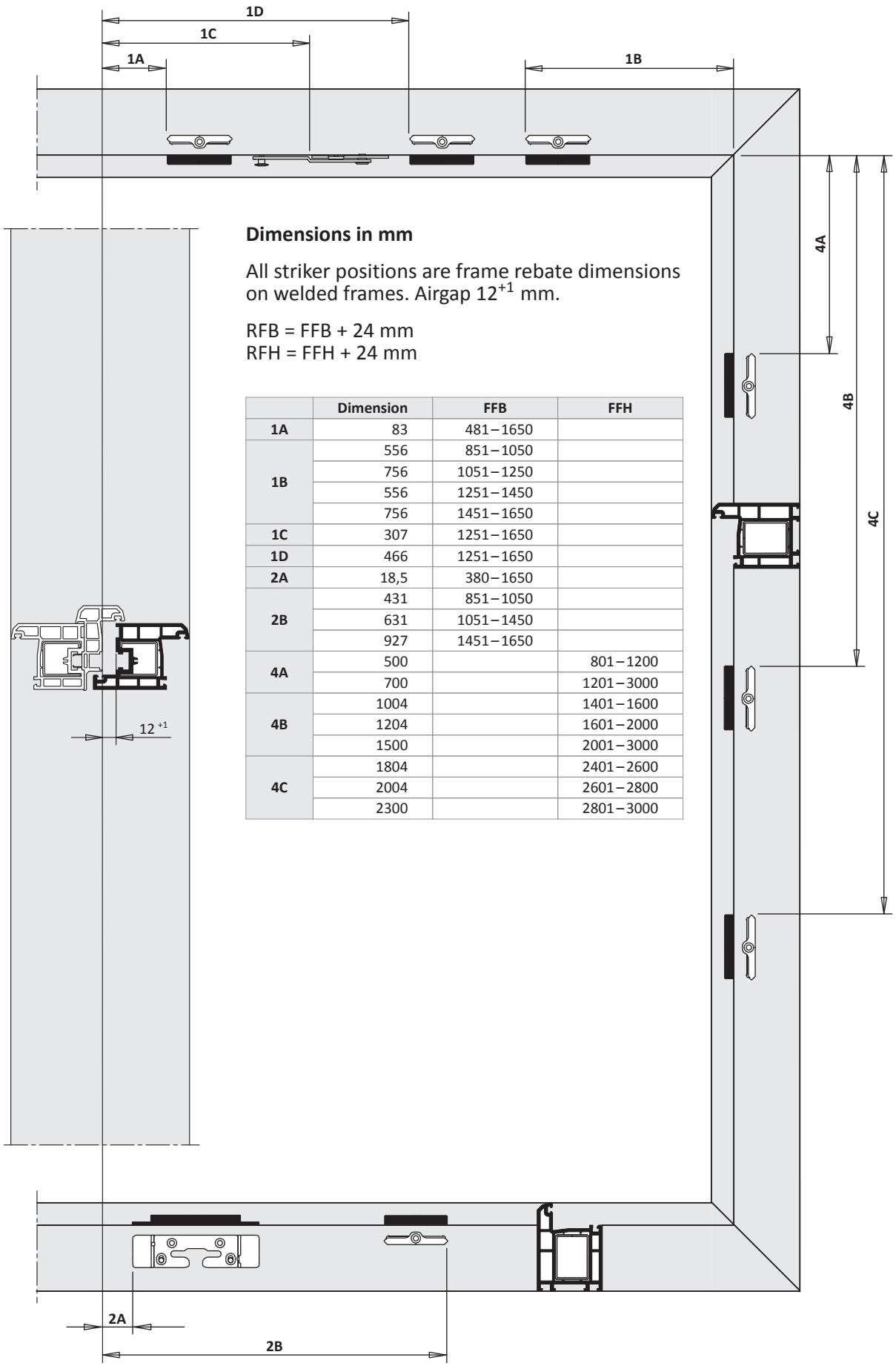


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	380– 480	
1B	71	481–1650	
1C	435	851–1050	
	635	1051–1450	
	931	1451–1650	
2A	6,5	380–1650	
2B	419	851–1050	
	619	1051–1450	
	915	1451–1650	



Dimensions in mm

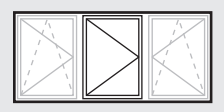
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	380–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



GS

3-sash Centre sash second opening turn

PVC

basic security

fixed handle position

Hinge side axxent 24+

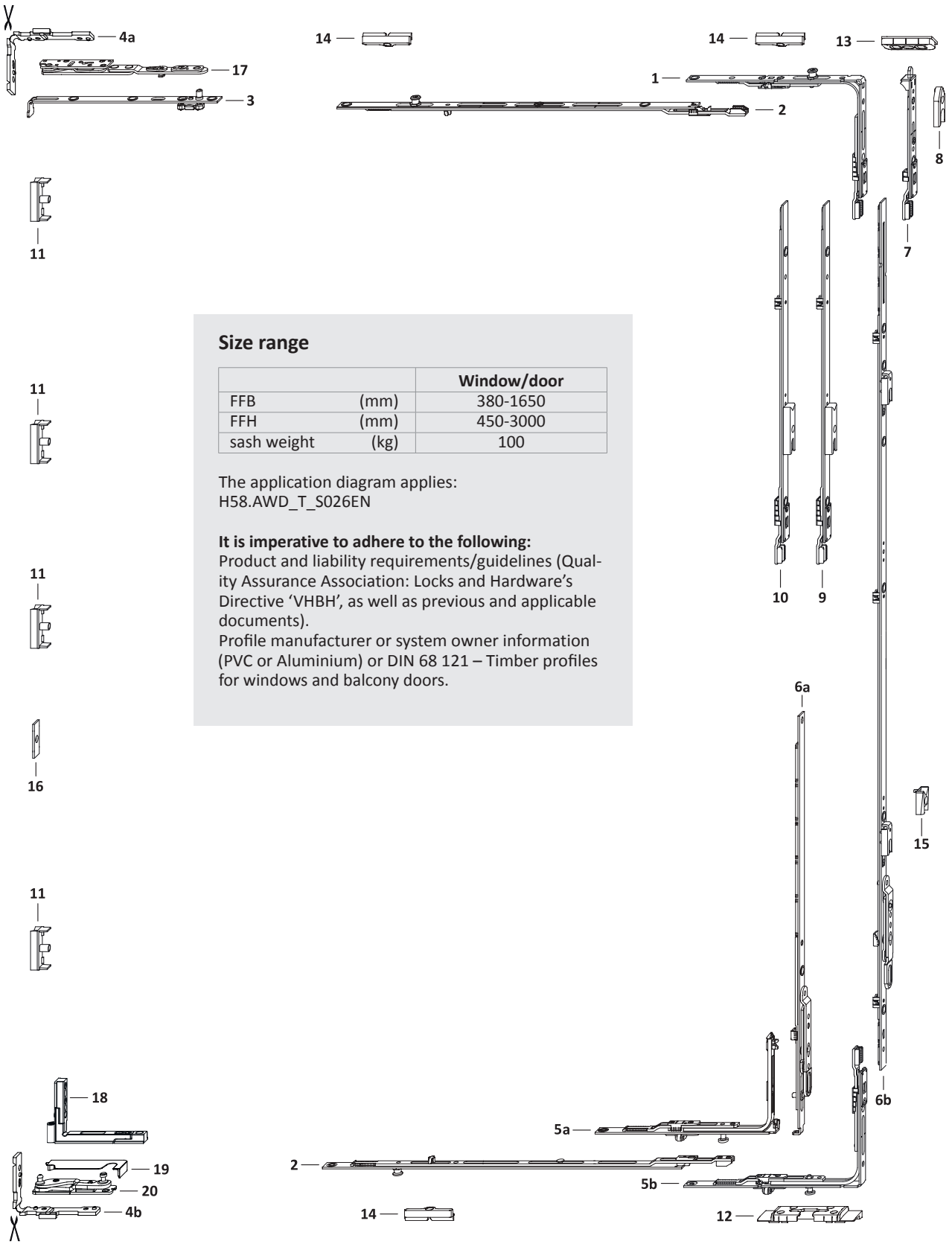
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear

hardware layout

3-sash Centre sash second opening turn
PVC GK Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	450-3000
sash weight	(kg)	100

The application diagram applies:
H58.AWD_T_S026EN

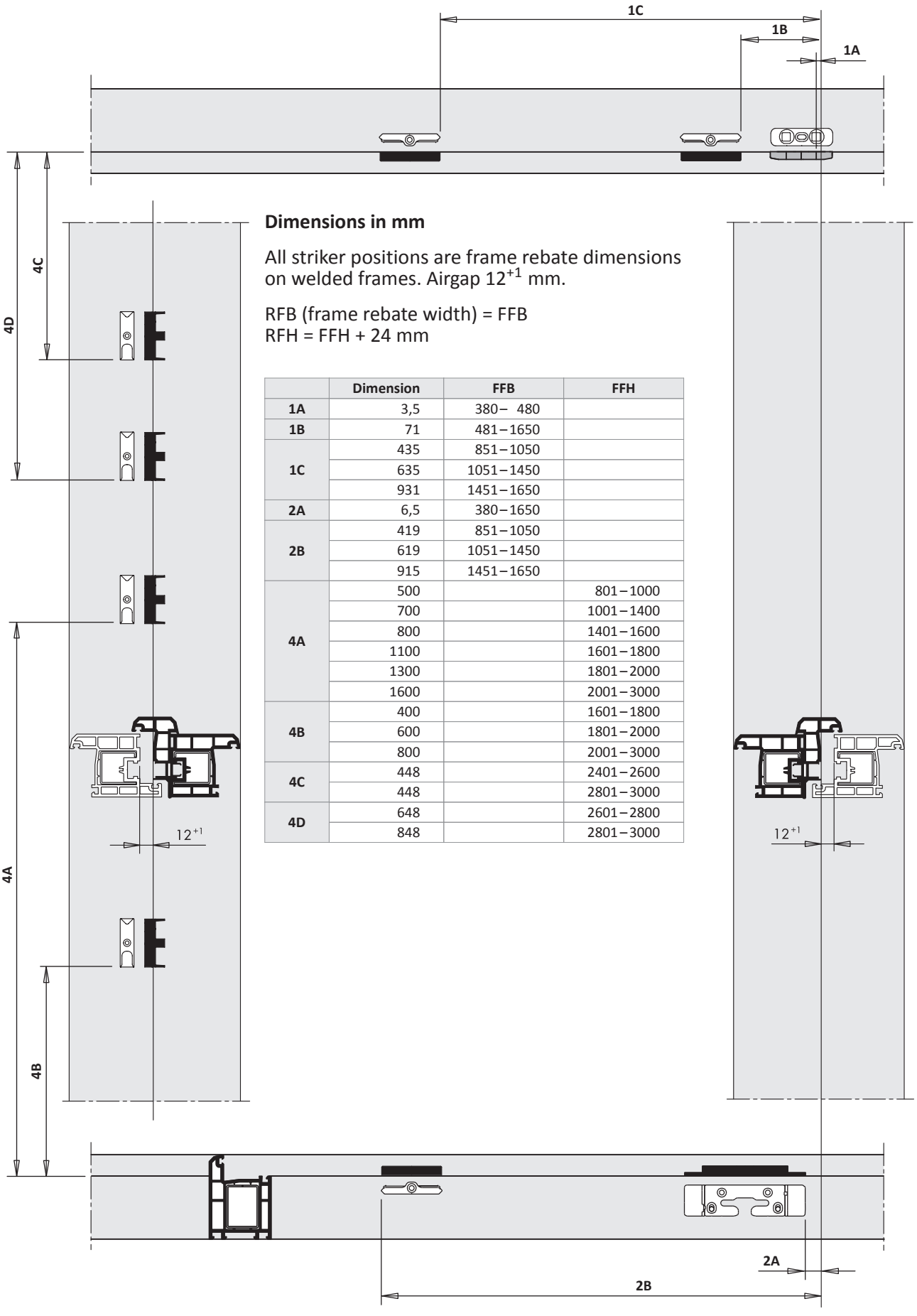
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							12	13	14
1	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	481–1650					1
2	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851–1050					2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					2
3	stay sash part DF AX	TSSV3020- ...	1	380–1650					
4	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650					
5a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	380–1650	450– 800		1		
5b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	380–1650	801–3000		1		
6a	sec.sash gear 16 sz 30	TGKS0010- ...	1	380–1250	450– 600	180			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300			
6b	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400			
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500			
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600			
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401–1600	700			
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700			
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000			
	sec.sash gear 16AF200/G10002SB	TGKS4110- ...			2001–3000	1000			
7	locking bolt AF VSO RSA 11	TESC2030- ...	1	380– 480	450–3000			1	
8	striker plate A0767	TRSA0010- ...	1	380– 480	450–3000				
9	linkage AF sz 1	TZZS0150- ...	1		2201–2400				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2401–2600				
	linkage AF sz 1	TZZS0150- ...			2601–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
10	linkage AF sz 2 1SB-RS	TZKS1030- ...	1		2601–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
11	striker plate 56 A2000	TRSB0030- ...	1		801–1000				
	striker plate 56 A2000	TRSB0030- ...			1001–1200				
	striker plate 56 A2000	TRSB0030- ...			1201–1400				
	striker plate 56 A2000	TRSB0030- ...			1401–1600				
	striker plate 56 A2000	TRSB0030- ...	2		1601–2400				
	striker plate 56 A2000	TRSB0030- ...	3		2401–2800				
	striker plate 56 A2000	TRSB0030- ...	4		2801–3000				
12	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
13	striker V	Ref. PDB, FRZV01							
14	striker plate S 56	Ref. PDB, TRSM							
on request									
15	striker snapper AF A0767	TRST0100- ...	1		1801–3000				
16	stop 2,2mm	710937	1						

Hinge side turning points				
Pos.	Description	Part number		required as per sash weight
		surface TS	RAL7037	100 kg
17	stay arm AX DF/3	Ref. PDB, TSAV47		1
18	corner hinge AX	Ref. PDB, TBEB41		1
19	cover cap AX EL	Ref. PDB, TKEL41		1
20	bottom hinge AX DF/3	Ref. PDB, TBEV43		1

Frame dimensions

3-sash Centre sash second opening turn
PVC GK Hinge side axxent 24+



Dimensions in mm

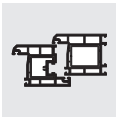
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB (frame rebate width) = FFB
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	380– 480	
1B	71	481–1650	
1C	435	851–1050	
	635	1051–1450	
	931	1451–1650	
2A	6,5	380–1650	
2B	419	851–1050	
	619	1051–1450	
	915	1451–1650	
4A	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
4B	400		1601–1800
	600		1801–2000
	800		2001–3000
4C	448		2401–2600
	448		2801–3000
4D	648		2601–2800
	848		2801–3000

TITAN AF

Installation instructions



GS

1-sash square tilt before turn (TBT)

PVC

basic security

fixed handle position

Hinge side axxent 24+

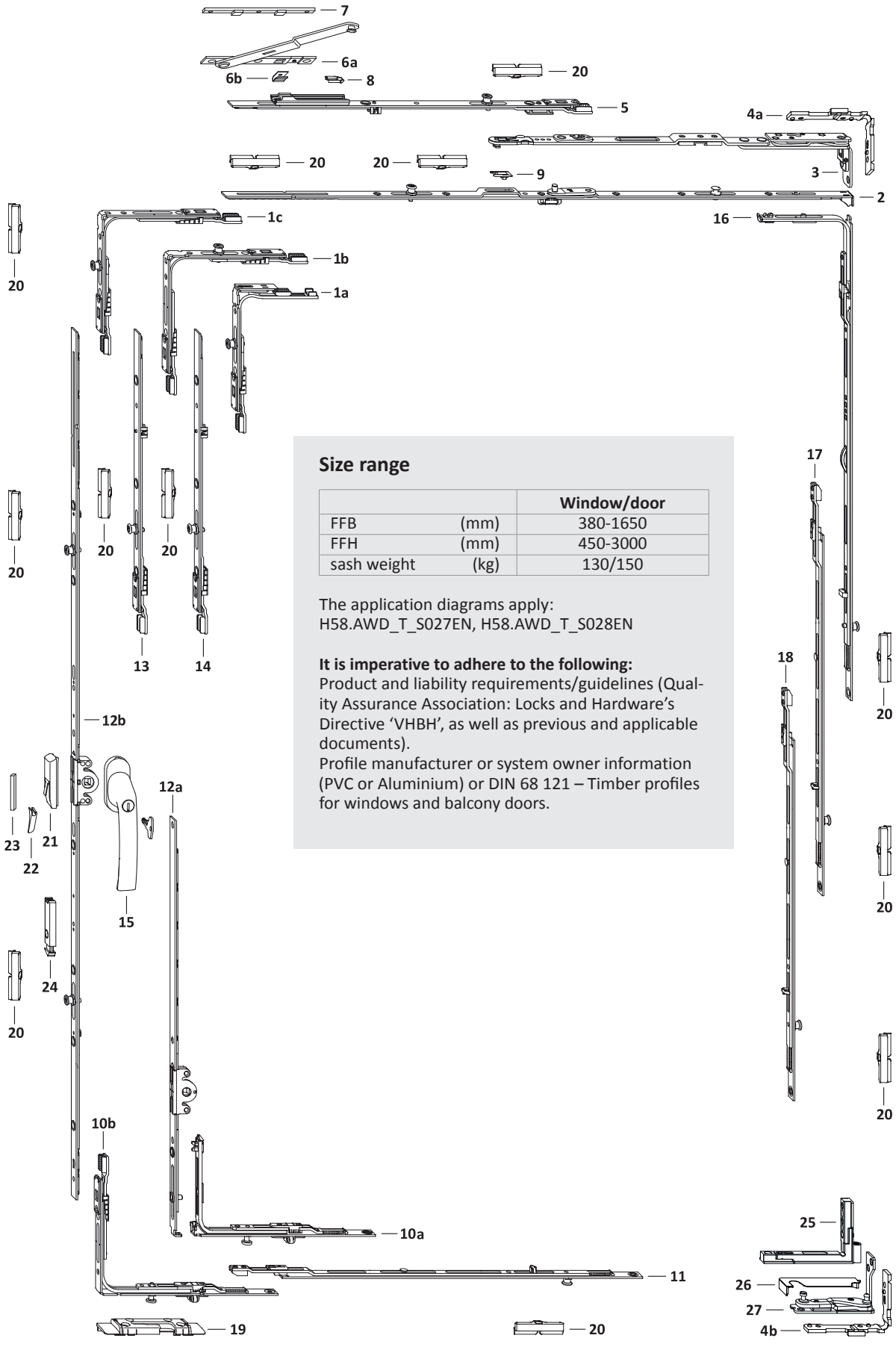
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS

hardware layout

1-sash square tilt before turn (TBT)
PVC GK Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

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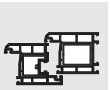
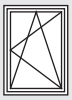
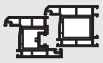



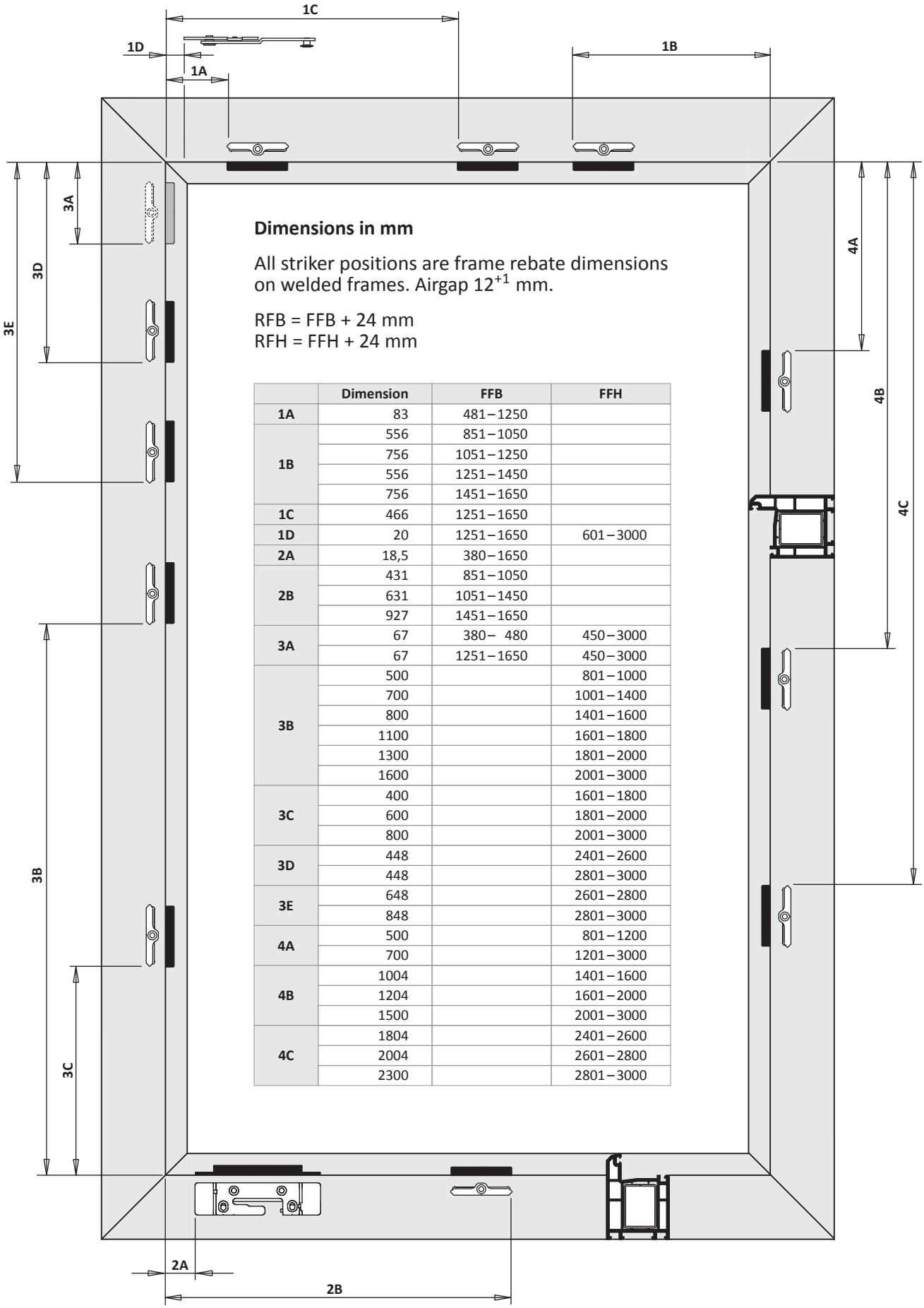
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							19	20
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	380– 480				1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1250				1
1c	corn.drive VSO 1RS	TEUL4010- ...	1	1251–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	380– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX TBT sz 1	Ref. PDB, TSAV51	1	380– 680				
	stay arm AX TBT sz 2+3	Ref. PDB, TSAV52		681– 850				
	stay arm AX TBT sz 4	Ref. PDB, TSAV54		851–1050				
	stay arm AX TBT sz 5	Ref. PDB, TSAV55		1051–1250				
	stay arm AX TBT sz 4	Ref. PDB, TSAV54		1251–1450				
	stay arm AX TBT sz 5	Ref. PDB, TSAV55		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650				
5	linkage add. stay AF TBT RS	TZOT1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	450– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	450– 900			
10a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	380–1250	450– 600		1	
10b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	380–1650	601–3000		1	
11	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
12a	gear 15 sz 30/G180	TGKK3010- ...	1	380–1250	450– 600	180		
12b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		2
13	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			1
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
14	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
15	handle Globe TBT lockable	Ref.access. ZHGT	1		450–3000			
16	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
19	tilt lock bear. S-ES FH TBT	Ref. PDB, FRKB						
20	striker plate S 56	Ref. PDB, TRSM						
on request								
21	mishandling device	TFBS0010- ...	1					
22	pressure piece	Ref. PDB, TFFD	1					
23	stop	Ref. PDB, FRZF01	1					
24	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

List of fittings

1-sash square tilt before turn (TBT)
PVC GK Hinge side axxent 24+



Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
25	corner hinge AX	Ref. PDB, TBEB41		1	1
26	cover cap AX EL	Ref. PDB, TKEL41		1	1
27	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

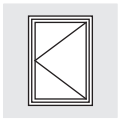
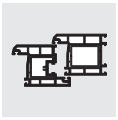
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1250	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	466	1251–1650	
1D	20	1251–1650	601–3000
2A	18,5	380–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	380– 480	450–3000
	67	1251–1650	450–3000
3B	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3C	400		1601–1800
	600		1801–2000
	800		2001–3000
3D	448		2401–2600
	448		2801–3000
3E	648		2601–2800
	848		2801–3000
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions

GS

1-sash square turn

PVC

basic security

fixed handle position

Hinge side axxent 24+

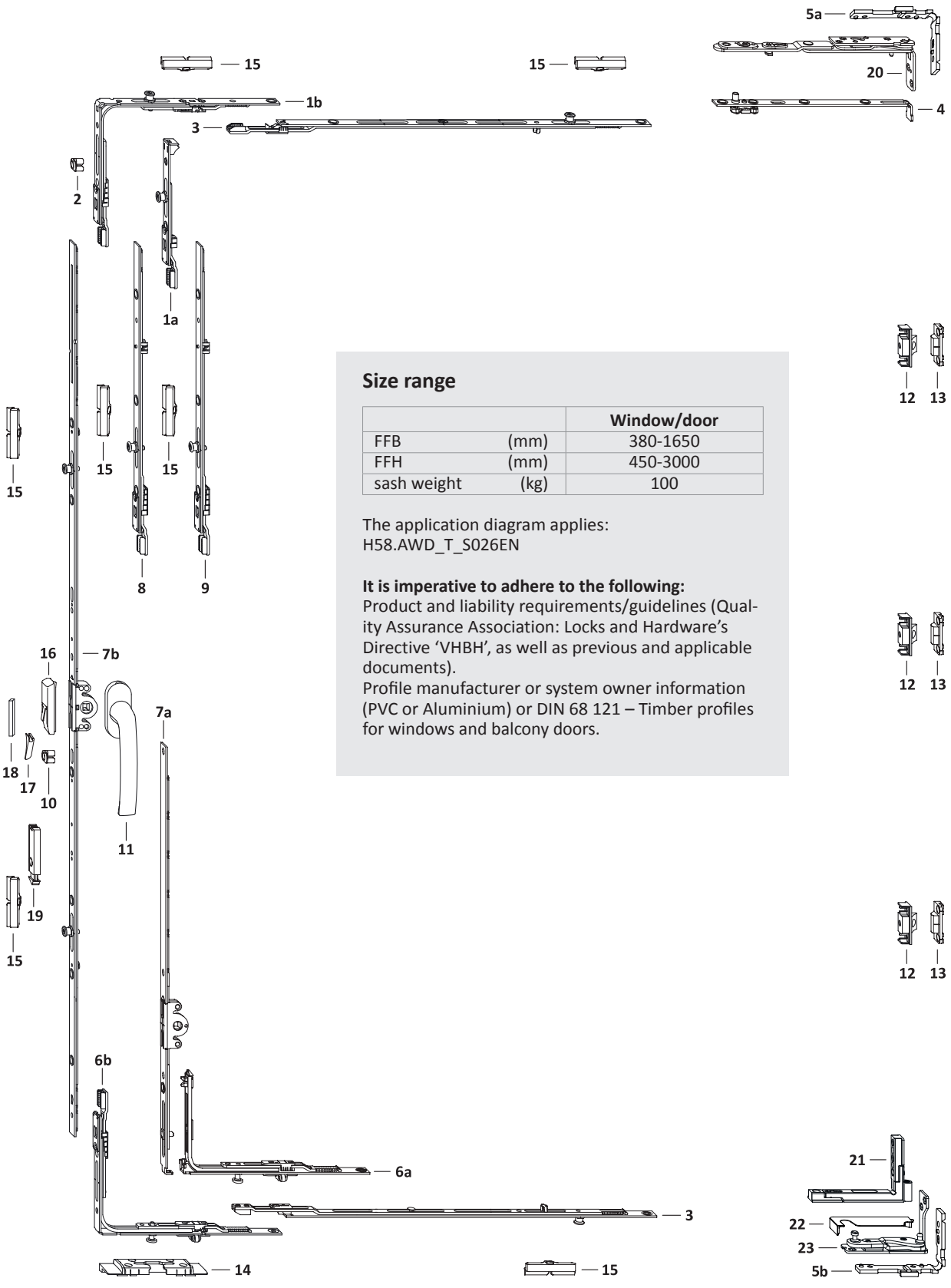
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear

hardware layout

1-sash square turn
PVC GK Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	450-3000
sash weight	(kg)	100

The application diagram applies:
H58.AWD_T_S026EN

It is imperative to adhere to the following:
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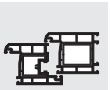
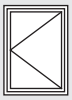
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

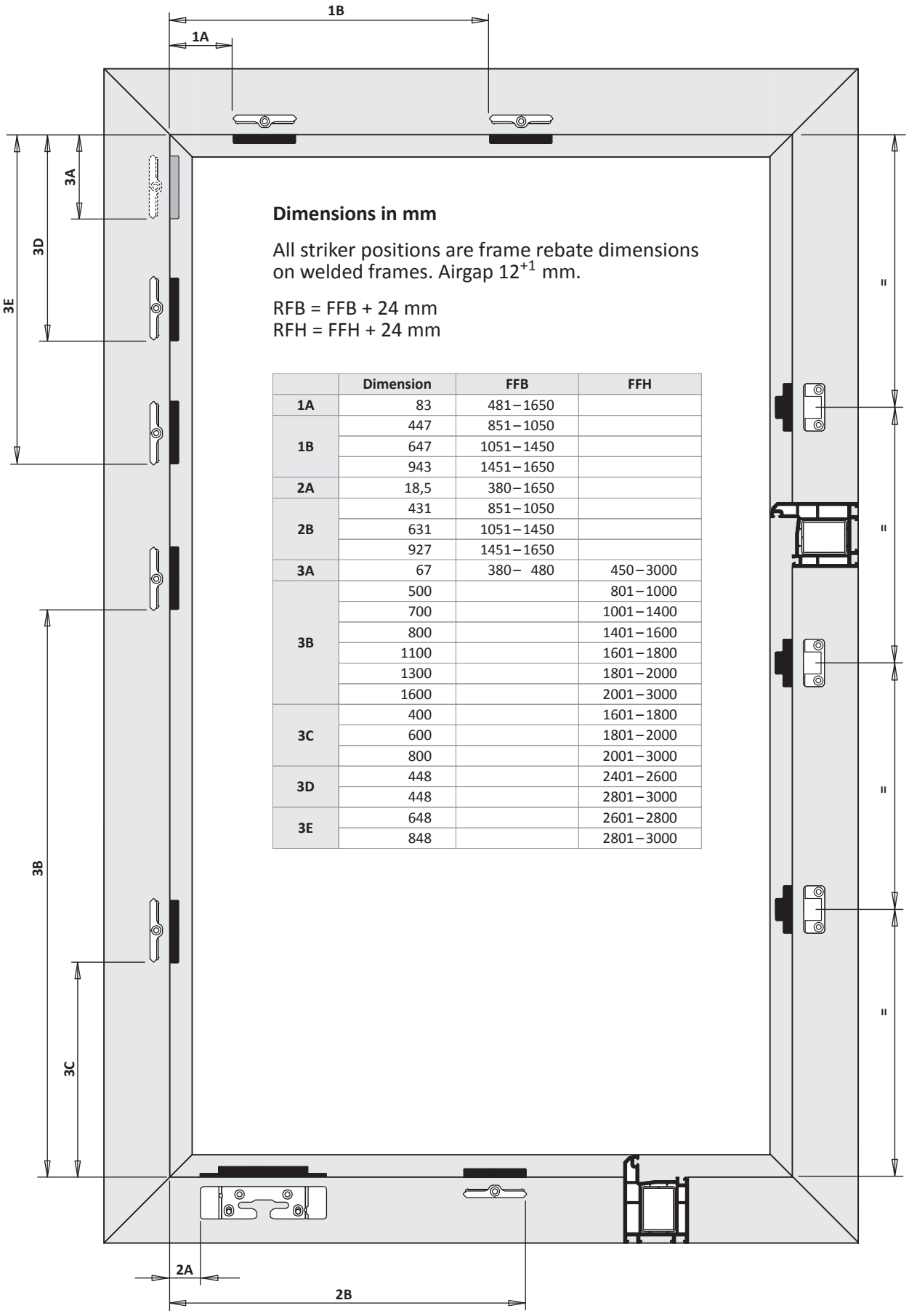



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							14	15
1a	locking bolt AF VS 180° 1RS	TESC2020- ...	1	380– 480				1
1b	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	481–1650				1
2	travel restrictor	TFHB0010- ...	1	380–1250	450– 600			
3	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851–1050				2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				2
4	stay sash part DF AX	TSSV3020- ...	1	380–1650				
5	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650				
6a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	380–1250	450– 600		1	
6b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	380–1650	601–3000		1	
7a	gear 15 sz 30/G180	TGKK3010- ...	1	380–1250	450– 600	180		
7b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		2
8	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			1
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
9	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
10	travel restrictor	TFHB0010- ...	1		601–3000			
11	handle Globe	Ref.access. ZHGS	1		450–3000			
12	sash part MV	Ref. PDB, ZFMV01	1		801–1600			
	sash part MV	Ref. PDB, ZFMV01	2		1601–2400			
	sash part MV	Ref. PDB, ZFMV01	3		2401–3000			
13	frame part MV	Ref. PDB, ZRZM01	1		801–1600			
	frame part MV	Ref. PDB, ZRZM01	2		1601–2400			
	frame part MV	Ref. PDB, ZRZM01	3		2401–3000			
14	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
15	striker plate S 56	Ref. PDB, TRSM						
on request								
16	mishandling device	TFBS0010- ...	1					
17	pressure piece	Ref. PDB, TFFD	1					
18	stop	Ref. PDB, FRZF01	1					
19	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

Hinge side turning points				
Pos.	Description	Part number		required as per sash weight
		surface TS	RAL7037	100 kg
20	stay arm AX DF	Ref. PDB, TSAV46		1
21	corner hinge AX	Ref. PDB, TBEB41		1
22	cover cap AX EL	Ref. PDB, TKEL41		1
23	bottom hinge AX	Ref. PDB, TBEV41		1

Frame dimensions

1-sash square turn
PVC GK Hinge side axxent 24+



Dimensions in mm

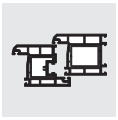
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	447	851–1050	
	647	1051–1450	
	943	1451–1650	
2A	18,5	380–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	380– 480	450–3000
3B	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3C	400		1601–1800
	600		1801–2000
	800		2001–3000
3D	448		2401–2600
	448		2801–3000
3E	648		2601–2800
	848		2801–3000

TITAN AF

Installation instructions



GS

1-sash square tilt-turn

PVC

basic security

fixed handle position

Hinge side axxent 24+

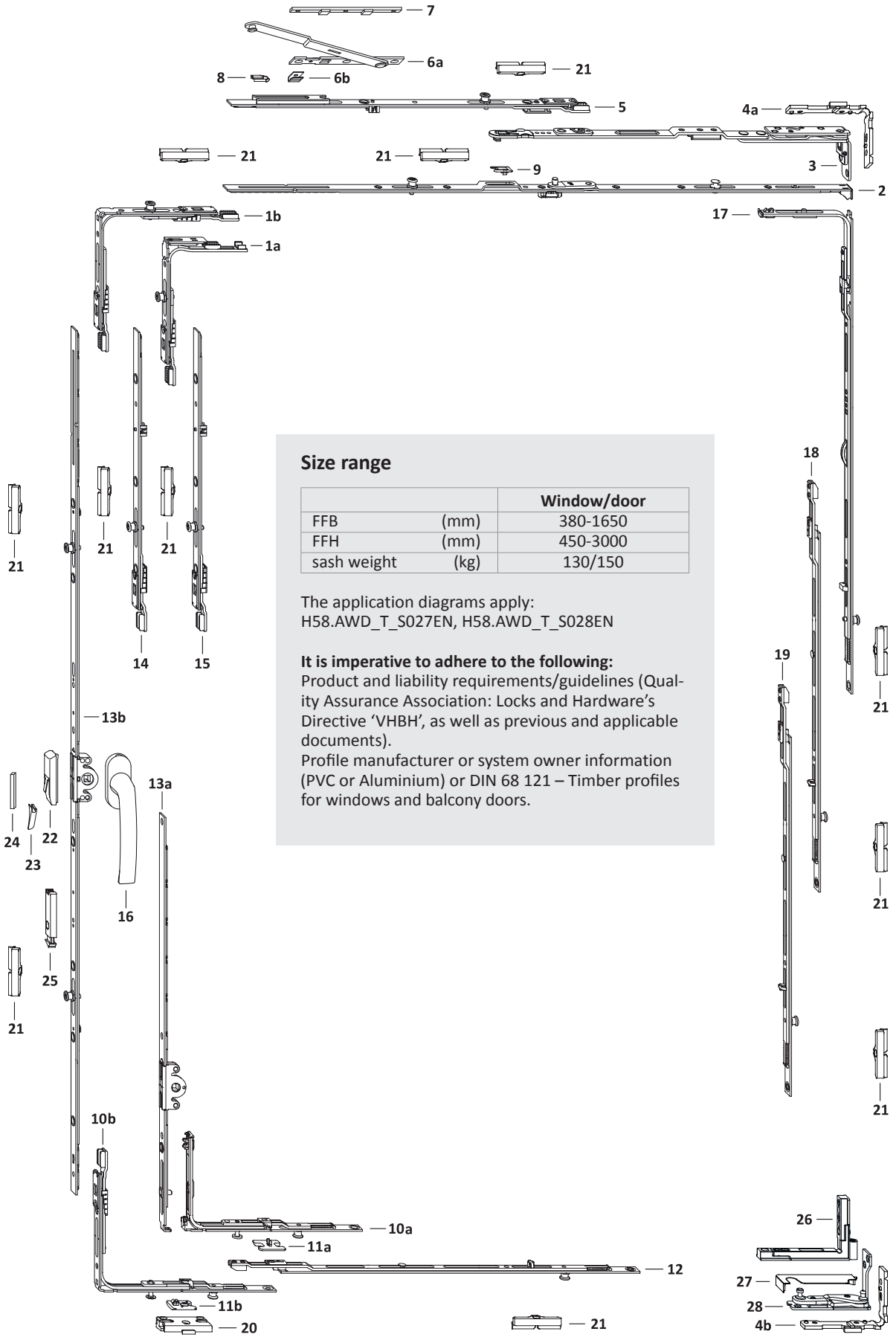
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS

hardware layout

1-sash square tilt-turn
PVC GK Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

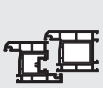
The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

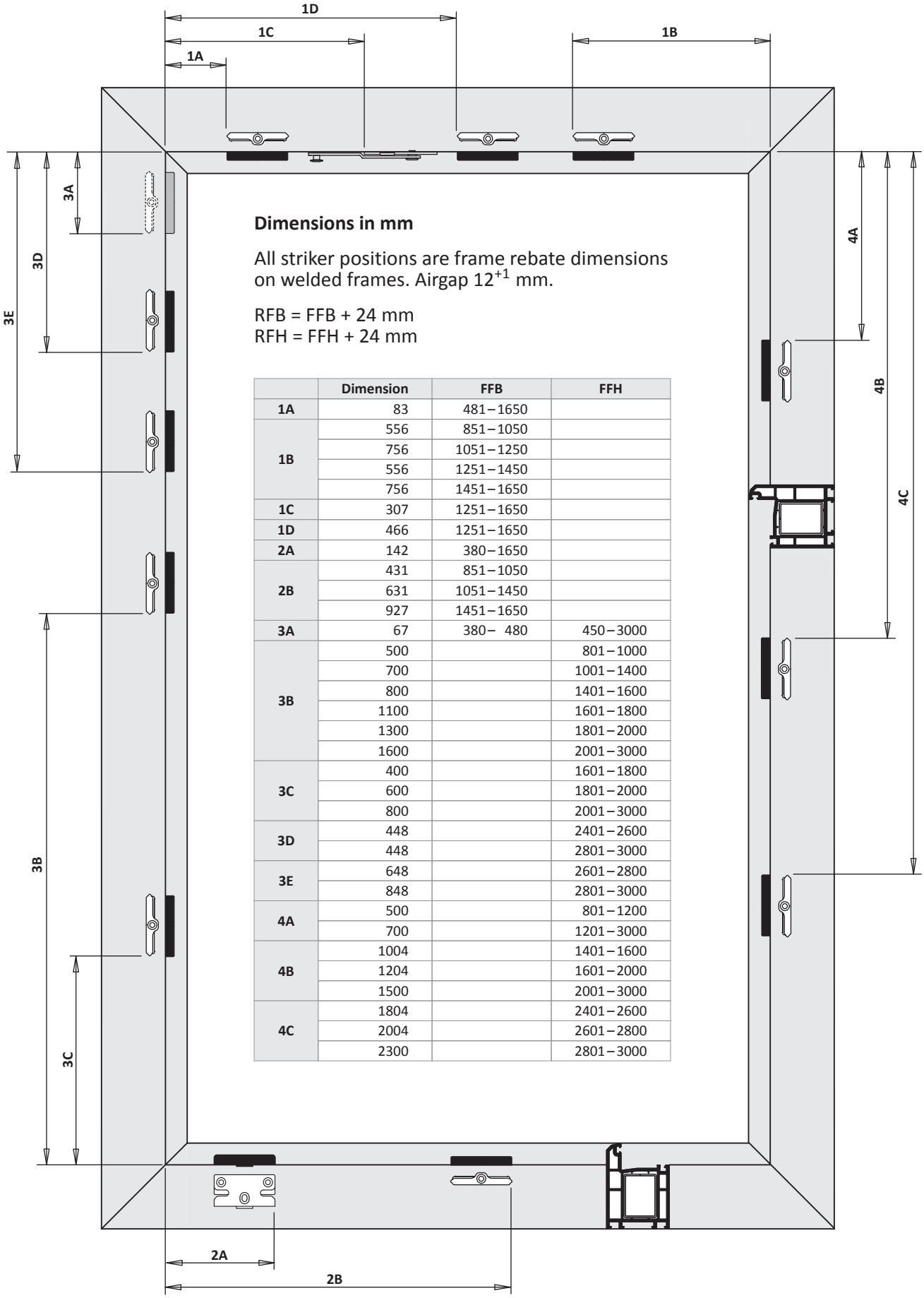
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							20	21
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	380– 480				1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	380– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	380– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	450– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	450– 900			
10a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	380–1250	450– 600		1	
10b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	380–1650	601–3000		1	
11a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	380–1250	450– 600			
11b	run up block AF 13 mm 13	TFFH0080- ...	1	380–1650	601–3000			
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
13a	gear 15 sz 30/G180	TGKK3010- ...	1	380–1250	450– 600	180		
13b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		2
14	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			1
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
15	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
16	handle Globe	Ref.access. ZHGS	1		450–3000			
17	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
20	striker plate S-RS	Ref. PDB, TRSK						
21	striker plate S 56	Ref. PDB, TRSM						
on request								
22	mishandling device	TFBS0010- ...	1					
23	pressure piece	Ref. PDB, TFFD	1					
24	stop	Ref. PDB, FRZF01	1					
25	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

List of fittings

1-sash square tilt-turn
PVC GK Hinge side axxent 24+



Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
26	corner hinge AX	Ref. PDB, TBEB41		1	1
27	cover cap AX EL	Ref. PDB, TKEL41		1	1
28	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	380–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	380– 480	450–3000
3B	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3C	400		1601–1800
	600		1801–2000
	800		2001–3000
3D	448		2401–2600
	448		2801–3000
3E	648		2601–2800
	848		2801–3000
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

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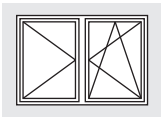
Installation instructions



GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

fixed handle position

Hinge side axxent 24+

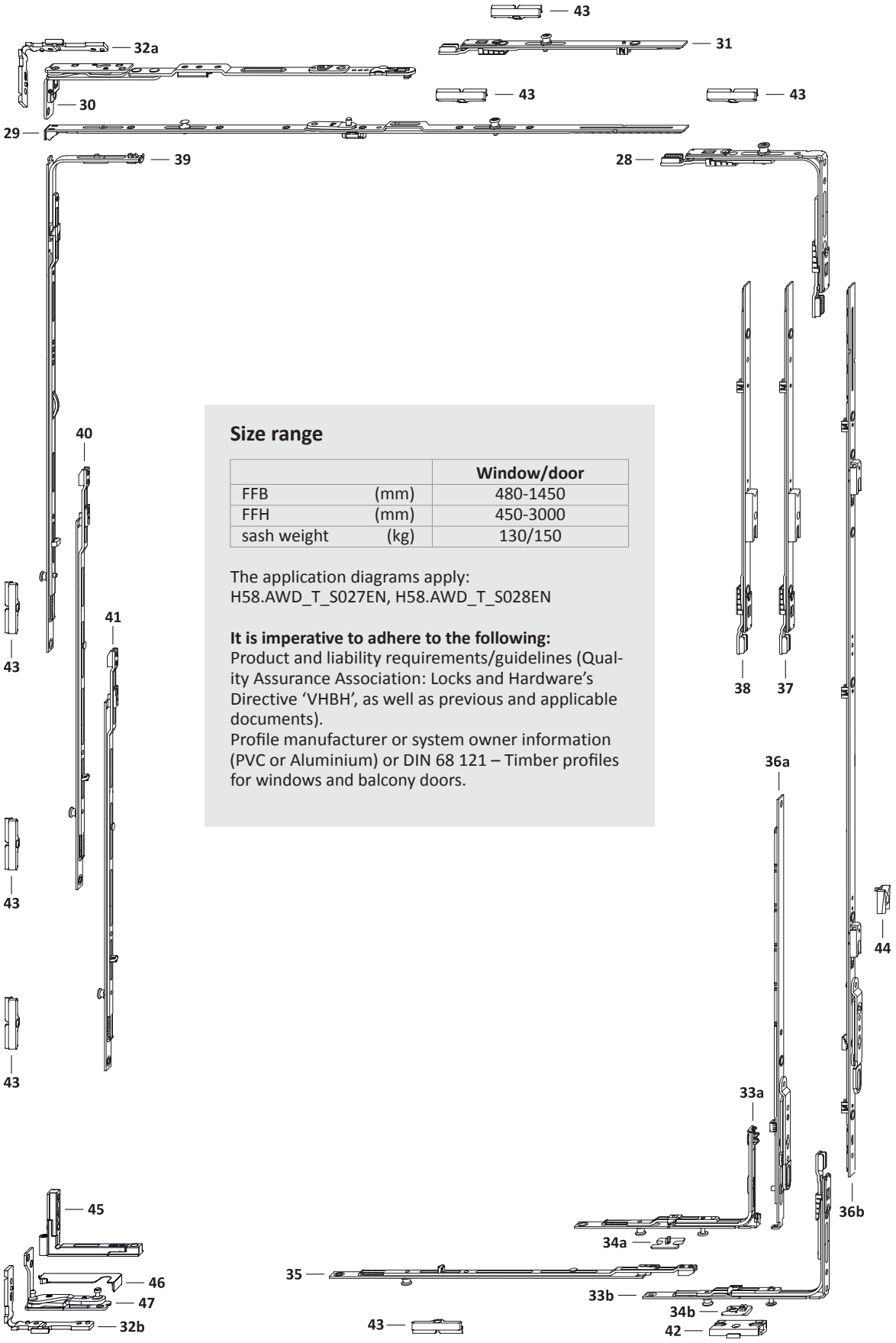
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800; secondary sash with DK-stay
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	480-1450
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
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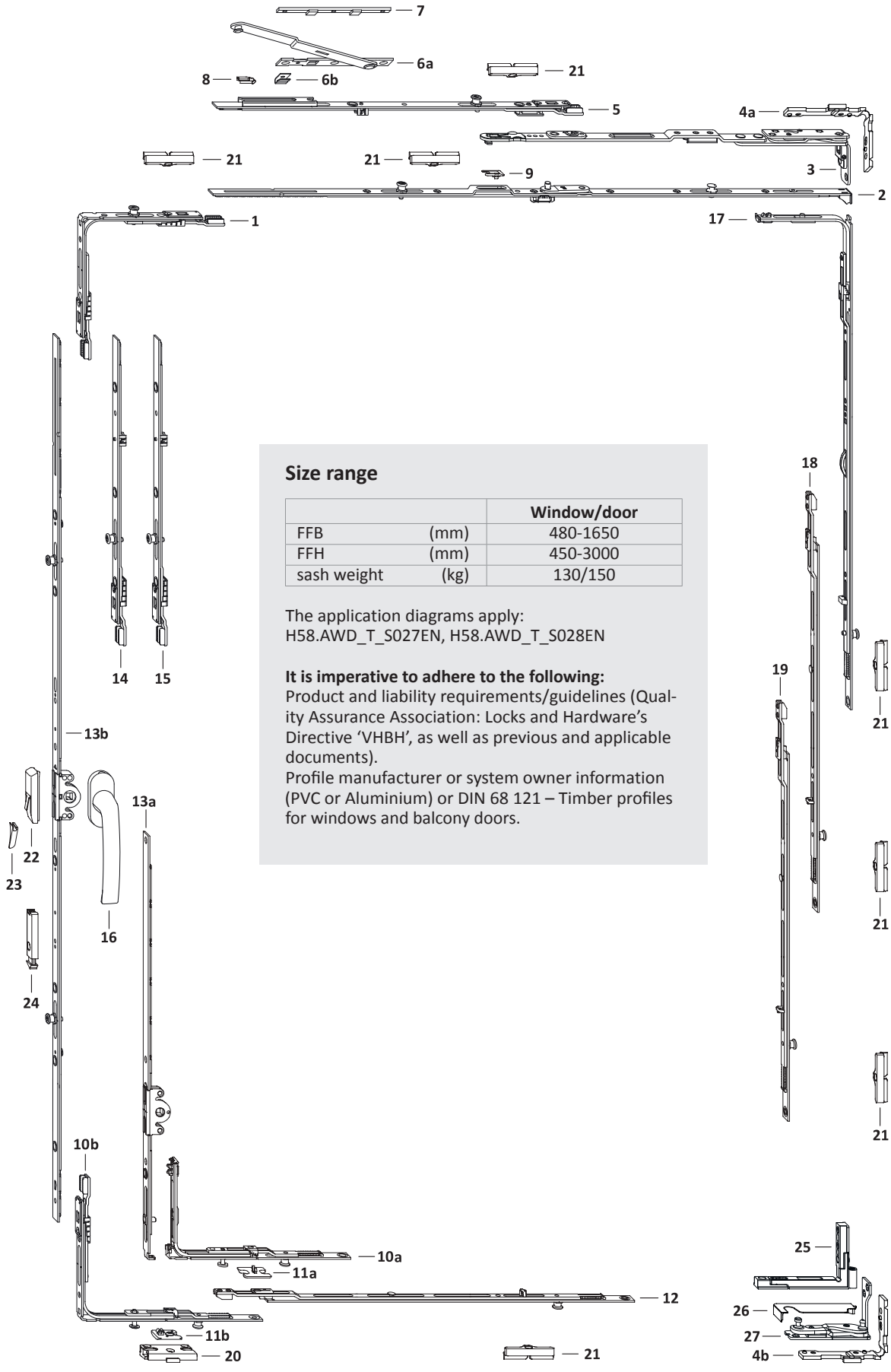

Size range

		Window/door
FFB	(mm)	480-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

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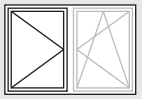
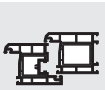
List of fittings slave sash

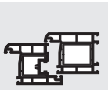
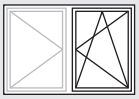
2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	42	43
28	corn.drive VSO 1RS	TEUL4010- ...	1	480–1450				1
29	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1450				1
30	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1450				
31	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
32	crt. accessories AX	Ref. PDB, TMZV41	1	1251–1450				
33a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480–1450	450– 800		1	
33b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480–1450	801–3000		1	
34a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480–1450	450– 800			
34b	run up block AF 13 mm 13	TFFH0080- ...	1	480–1450	801–3000			
35	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
36a	sec.sash gear 16 sz 30	TGKS0010- ...	1	480–1250	450– 600	180		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300		
36b	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400		
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500		
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600		
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401–1600	700		
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700		
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000		
	sec.sash gear 16AF200/G10002SB	TGKS4110- ...			2001–3000	1000		
37	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2401–2600			
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
38	linkage AF sz 2 1SB-RS	TZKS1030- ...	1		2601–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
39	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
40	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
41	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
42	striker plate S-RS	Ref. PDB, TRSK						
43	striker plate S 56	Ref. PDB, TRSM						
on request								
44	striker snapper AF A0767	TRST0100- ...	1		1801–3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
45	corner hinge AX	Ref. PDB, TBEB41		1	1
46	cover cap AX EL	Ref. PDB, TKEL41		1	1
47	bottom hinge AX	Ref. PDB, TBEV41		1	1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+

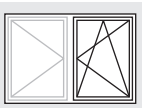
TITAN AF

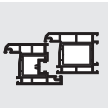
GS

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							20	21
1	corn.drive VSO 1RS	TEUL4010- ...	1	480–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	480–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	450– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	450– 900			
10a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480–1250	450– 600		1	
10b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480–1650	601–3000		1	
11a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480–1250	450– 600			
11b	run up block AF 13 mm 13	TFFH0080- ...	1	480–1650	601–3000			
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
13a	gear 15 sz 30/G180	TGKK3010- ...	1	480–1250	450– 600	180		
13b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		
14	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
15	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
16	handle Globe	Ref.access. ZHGS	1		450–3000			
17	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
20	striker plate S-RS	Ref. PDB, TRSK						
21	striker plate S 56	Ref. PDB, TRSM						
on request								
22	mishandling device	TFBS0010- ...	1		601–3000			
23	pressure piece	Ref. PDB, TFFD	1		601–3000			
24	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

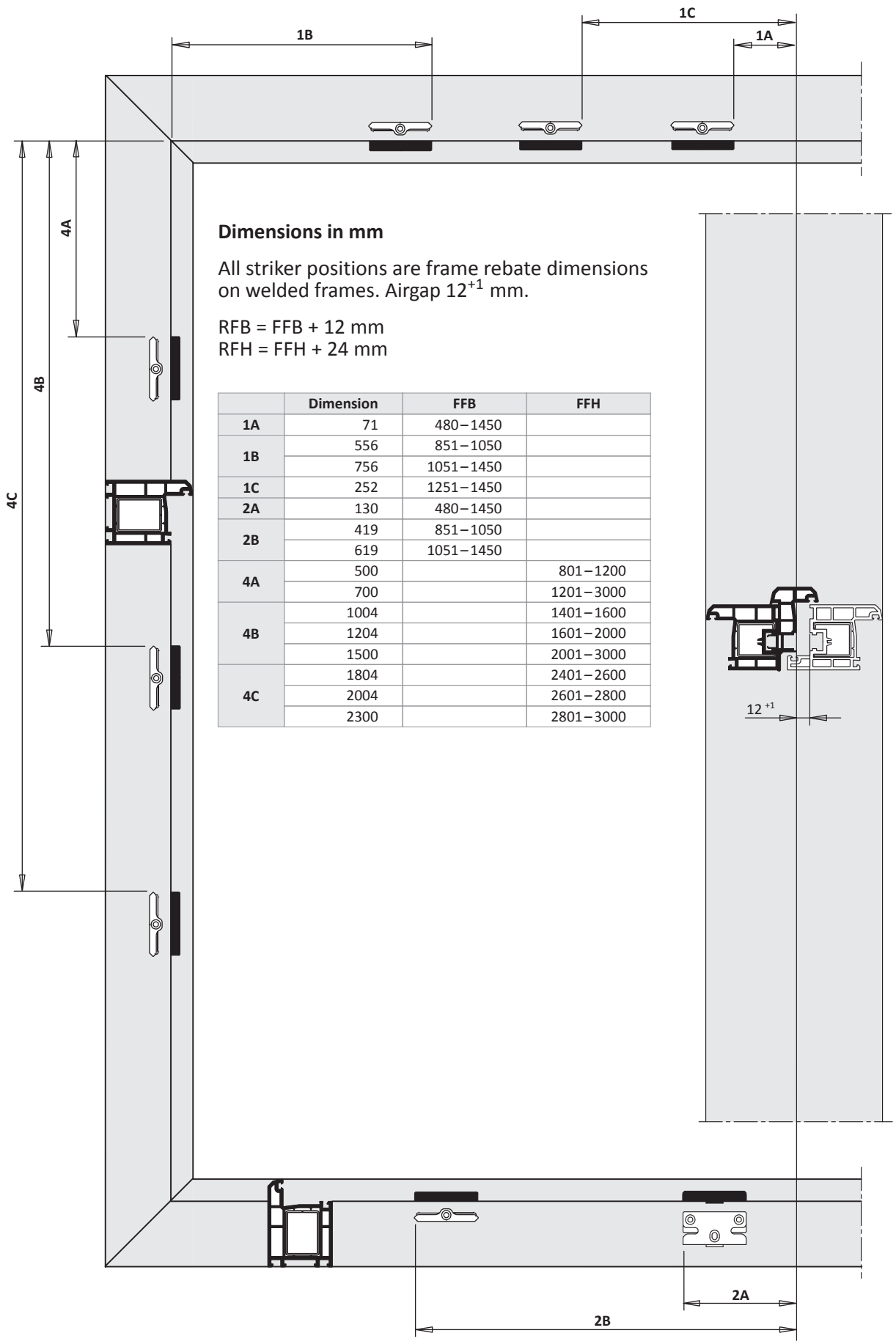
List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
25	corner hinge AX	Ref. PDB, TBEB41		1	1
26	cover cap AX EL	Ref. PDB, TKEL41		1	1
27	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

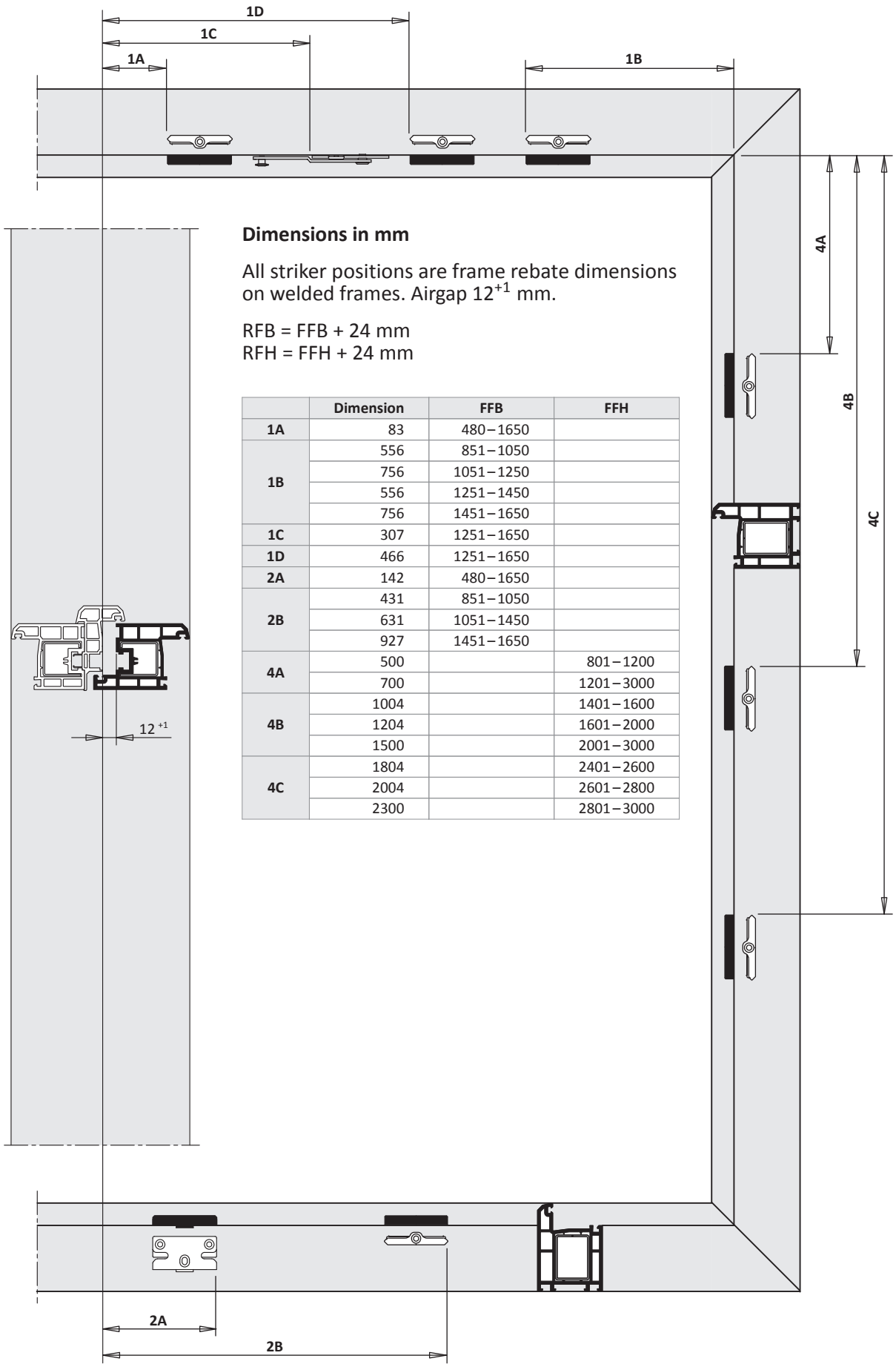
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	480–1450	
1B	556	851–1050	
	756	1051–1450	
1C	252	1251–1450	
2A	130	480–1450	
2B	419	851–1050	
	619	1051–1450	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+



Dimensions in mm

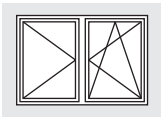
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	480–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

fixed handle position

Hinge side axxent 24+

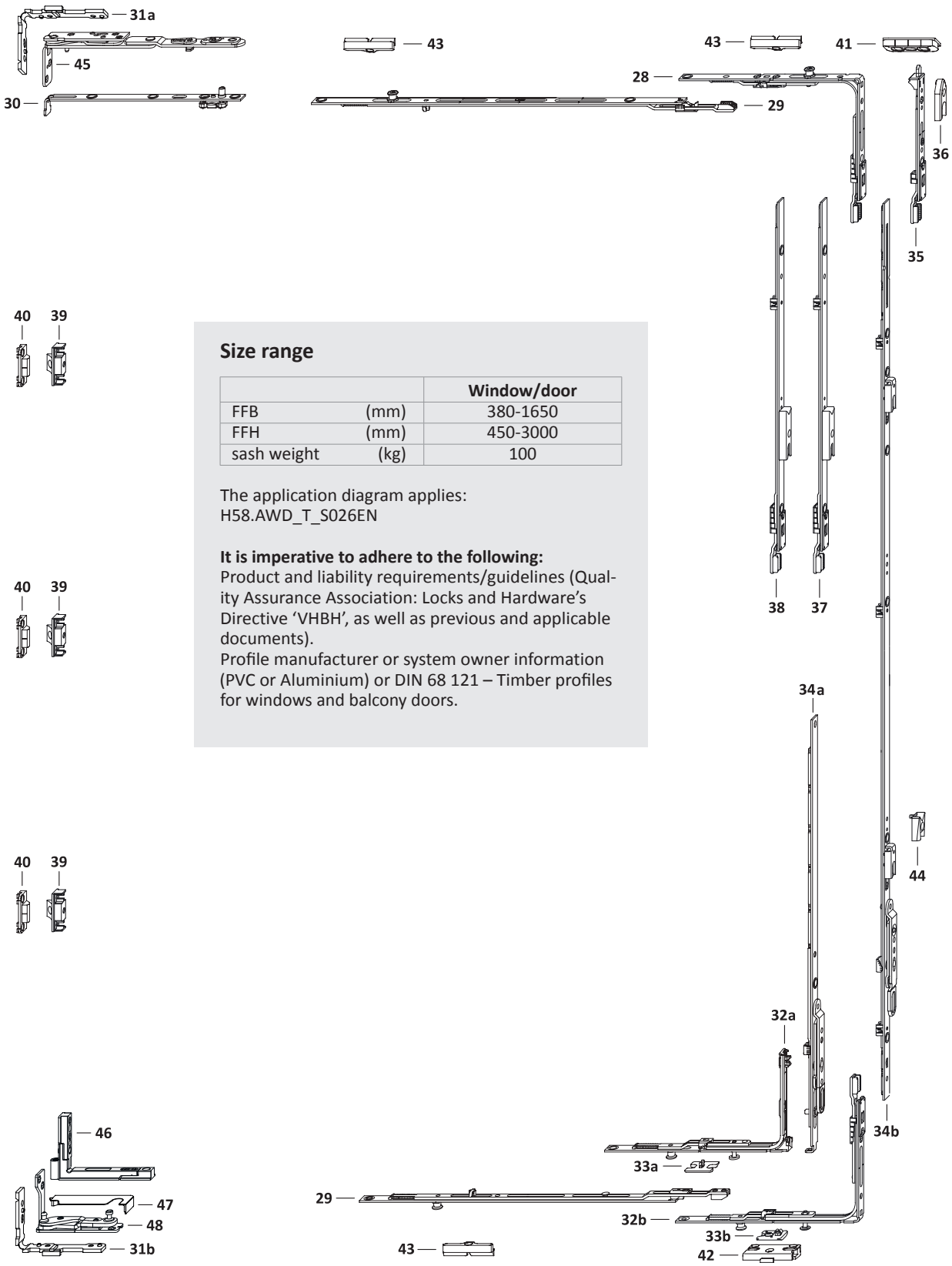
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+

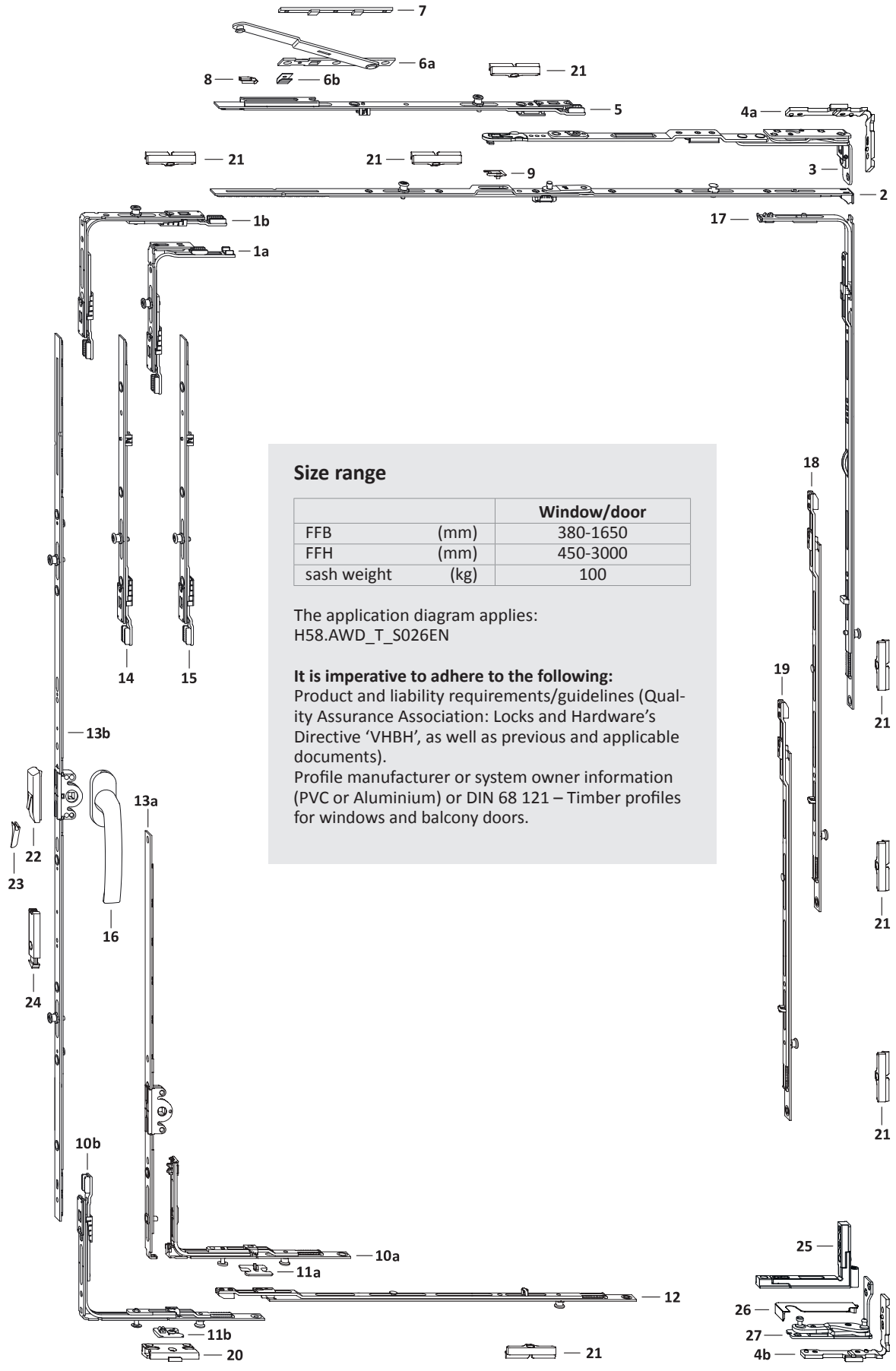


Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	450-3000
sash weight	(kg)	100

The application diagram applies:
H58.AWD_T_S026EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	450-3000
sash weight	(kg)	100

The application diagram applies:
H58.AWD_T_S026EN

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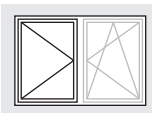
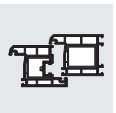
List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





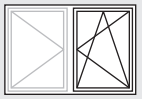
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
						In the main sash	41	42	43
28	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	481–1650					1
29	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851–1050					2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					2
30	stay sash part DF AX	TSSV3020- ...	1	380–1650					
31	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650					
32a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	380–1650	450– 800			1	
32b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	380–1650	801–3000			1	
33a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	380–1650	450– 800				
33b	run up block AF 13 mm 13	TFFH0080- ...	1	380–1650	801–3000				
34a	sec.sash gear 16 sz 30	TGKS0010- ...	1	380–1250	450– 600	180			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300			
34b	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400			
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500			
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600			
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401–1600	700			
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700			
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000			
	sec.sash gear 16AF200/G10002SB	TGKS4110- ...			2001–3000	1000			
35	locking bolt AF VSO RSA 11	TESC2030- ...	1	380– 480	450–3000		1		
36	striker plate A0767	TRSA0010- ...	1	380– 480	450–3000				
37	linkage AF sz 1	TZZS0150- ...	1		2201–2400				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2401–2600				
	linkage AF sz 1	TZZS0150- ...			2601–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
38	linkage AF sz 2 1SB-RS	TZKS1030- ...	1		2601–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
39	sash part MV	Ref. PDB, ZFMV01	1		801–1600				
	sash part MV	Ref. PDB, ZFMV01	2		1601–2400				
	sash part MV	Ref. PDB, ZFMV01	3		2401–3000				
40	frame part MV	Ref. PDB, ZRZM01	1		801–1600				
	frame part MV	Ref. PDB, ZRZM01	2		1601–2400				
	frame part MV	Ref. PDB, ZRZM01	3		2401–3000				
41	striker V	Ref. PDB, FRZV01							
42	striker plate S-RS	Ref. PDB, TRSK							
43	striker plate S 56	Ref. PDB, TRSM							
on request									
44	striker snapper AF A0767	TRST0100- ...	1		1801–3000				

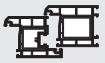
Hinge side turning points				
Pos.	Description	Part number		required as per sash weight
		surface TS	RAL7037	100 kg
45	stay arm AX DF	Ref. PDB, TSAV46		1
46	corner hinge AX	Ref. PDB, TBEB41		1
47	cover cap AX EL	Ref. PDB, TKEL41		1
48	bottom hinge AX	Ref. PDB, TBEV41		1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							20	21
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	380– 480				
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	380– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	380– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	450– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	450– 900			
10a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	380–1250	450– 600		1	
10b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	380–1650	601–3000		1	
11a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	380–1250	450– 600			
11b	run up block AF 13 mm 13	TFFH0080- ...	1	380–1650	601–3000			
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
13a	gear 15 sz 30/G180	TGKK3010- ...	1	380–1250	450– 600	180		
13b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		
14	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
15	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
16	handle Globe	Ref.access. ZHGS	1		450–3000			
17	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
20	striker plate S-RS	Ref. PDB, TRSK						
21	striker plate S 56	Ref. PDB, TRSM						
on request								
22	mishandling device	TFBS0010- ...	1		601–3000			
23	pressure piece	Ref. PDB, TFFD	1		601–3000			
24	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

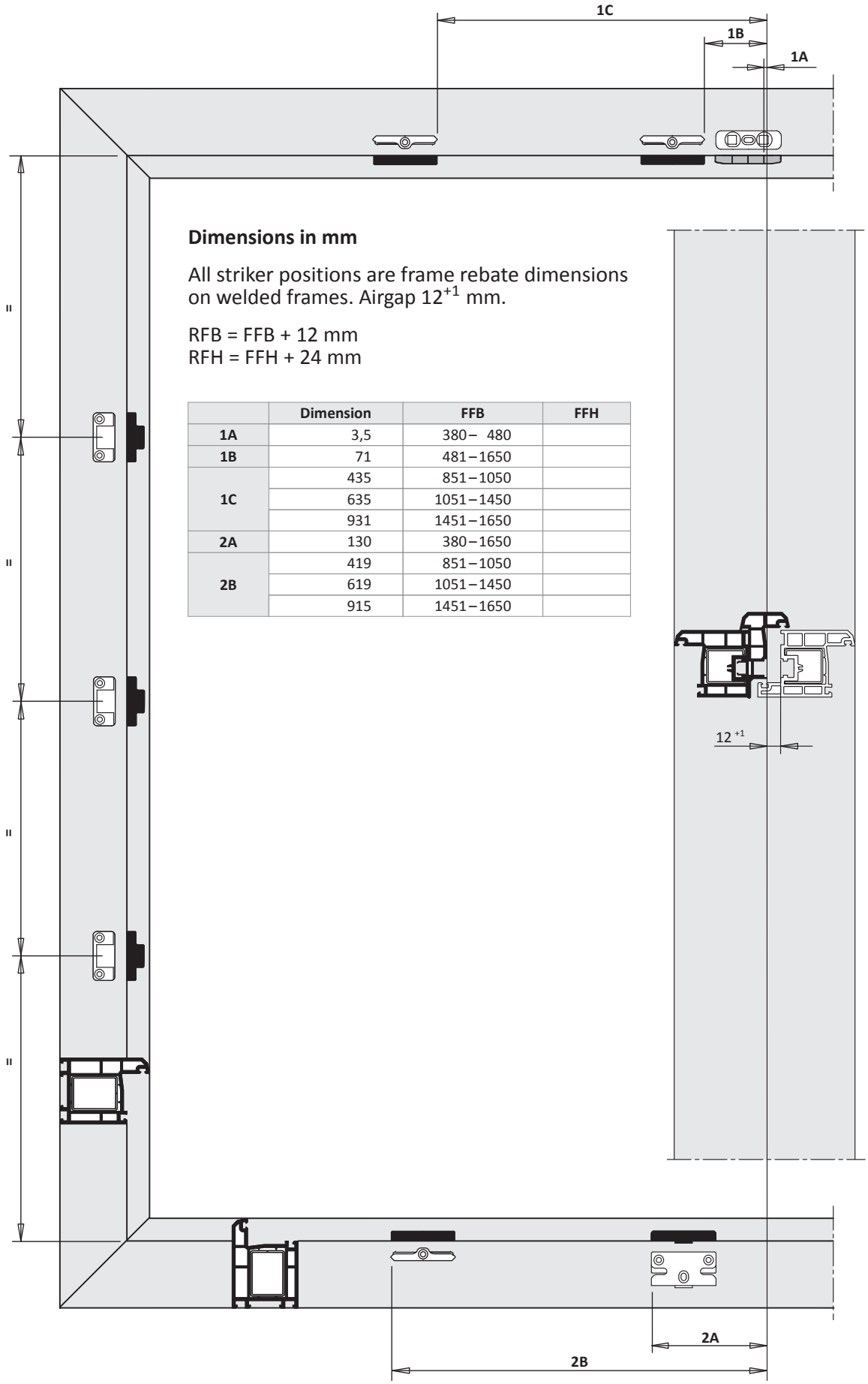
List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





Hinge side turning points				
Pos.	Description	Part number		required as per sash weight
		surface TS	RAL7037	100 kg
25	corner hinge AX	Ref. PDB, TBEB41		1
26	cover cap AX EL	Ref. PDB, TKEL41		1
27	bottom hinge AX	Ref. PDB, TBEV41		1



Dimensions in mm

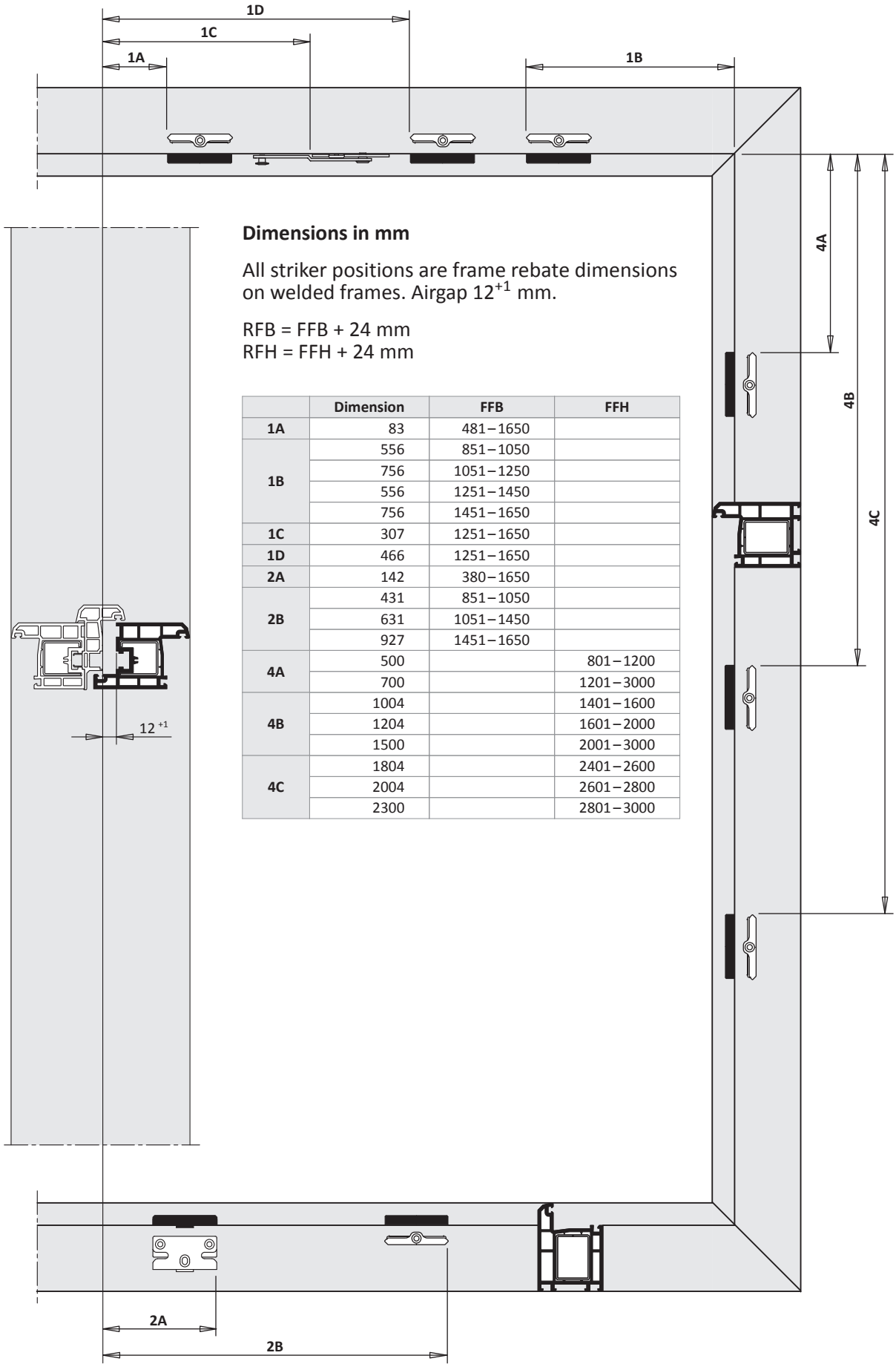
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	380– 480	
1B	71	481–1650	
1C	435	851–1050	
	635	1051–1450	
	931	1451–1650	
2A	130	380–1650	
2B	419	851–1050	
	619	1051–1450	
	915	1451–1650	

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+



Dimensions in mm

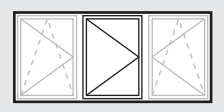
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	380–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



GS

3-sash Centre sash second opening turn

PVC

basic security

fixed handle position

Hinge side axxent 24+

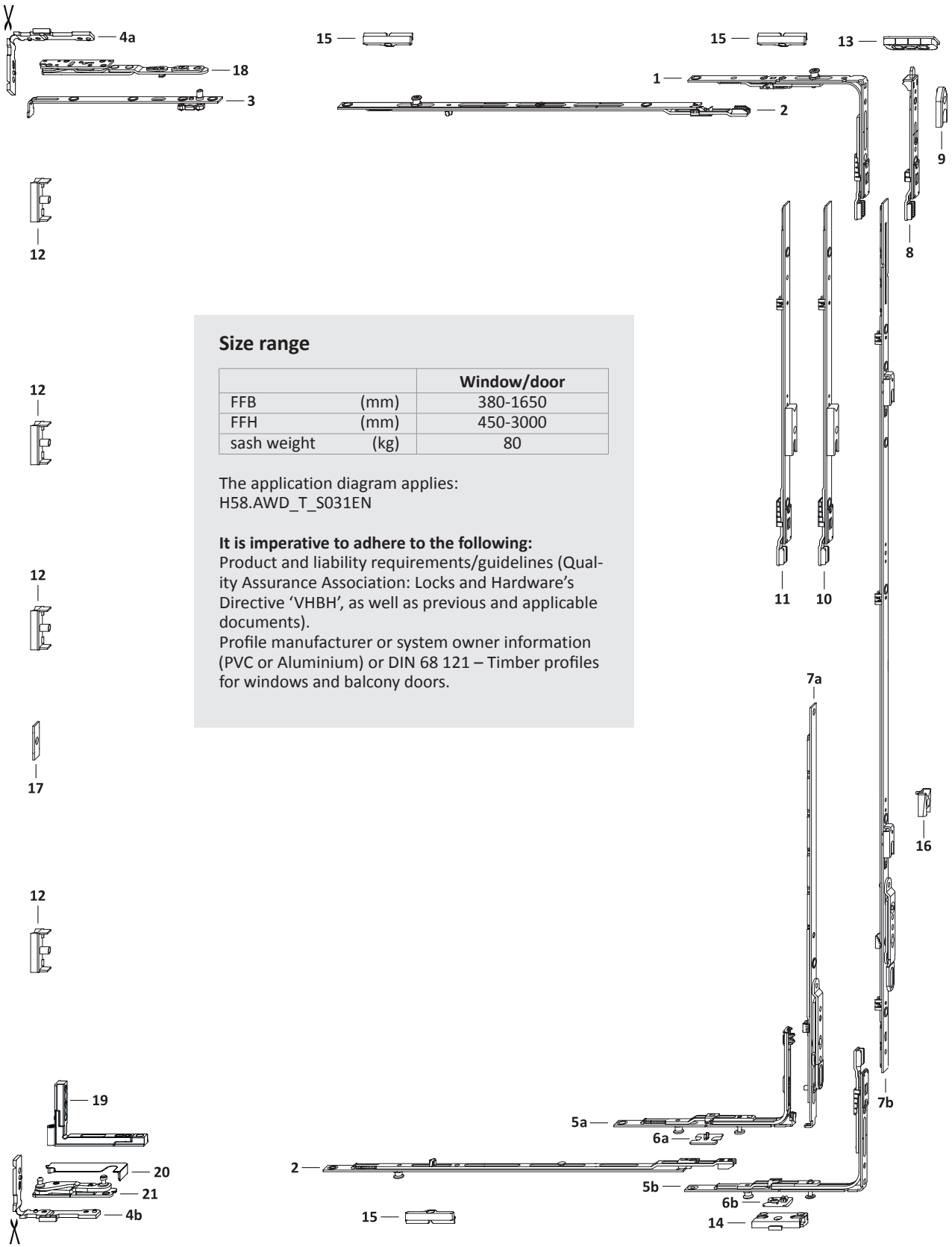
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear

hardware layout

3-sash Centre sash second opening turn
PVC GK Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	450-3000
sash weight	(kg)	80

The application diagram applies:
H58.AWD_T_S031EN

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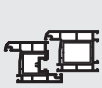
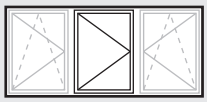




List of fittings

3-sash Centre sash second opening turn
PVC GK Hinge side axxent 24+

TITAN AF

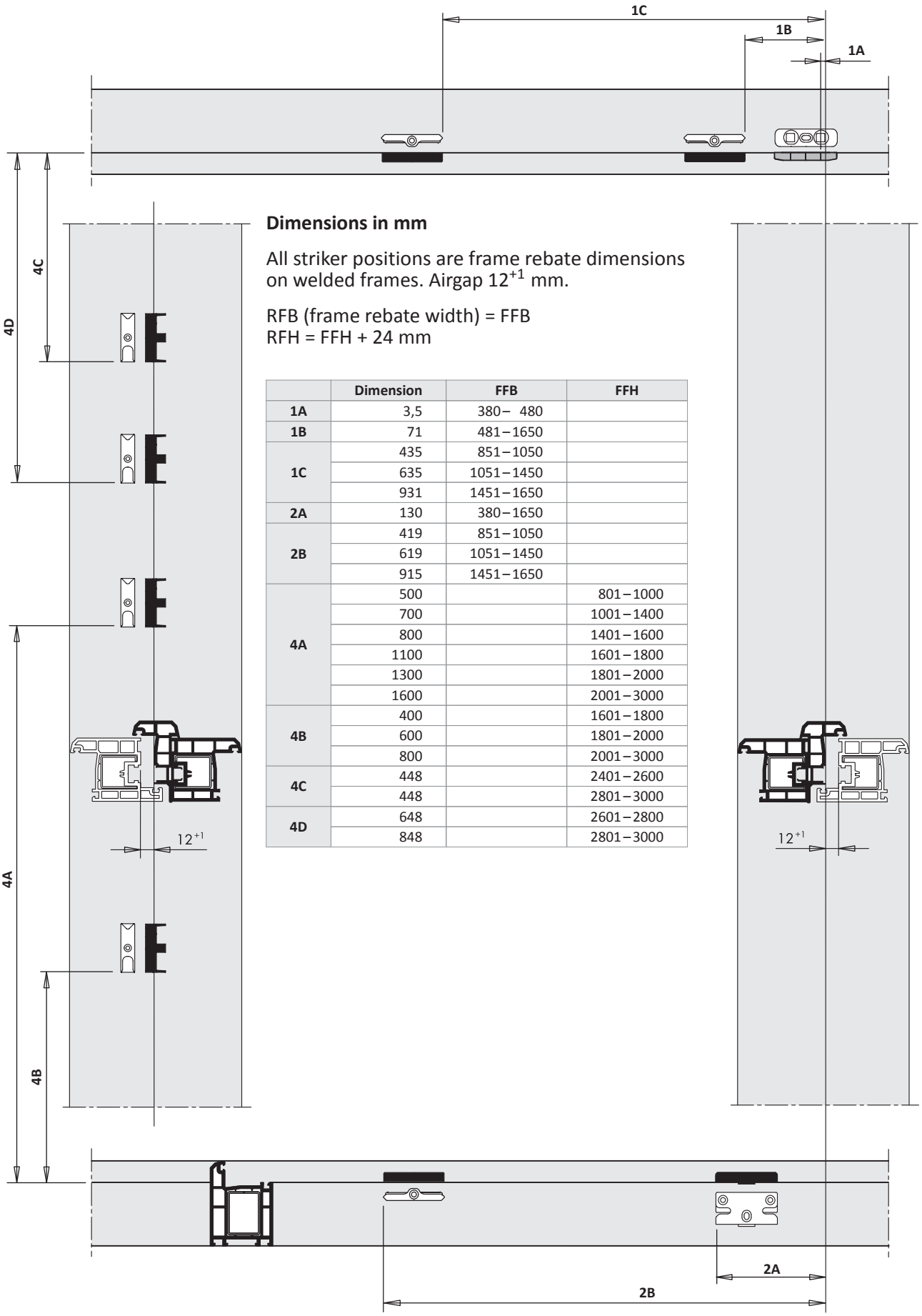
GS

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							13	14	15
1	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	481 – 1650					1
2	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851 – 1050					2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450					2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451 – 1650					2
3	stay sash part DF AX	TSSV3020- ...	1	380 – 1650					
4	crt. accessories AX	Ref. PDB, TMZV41	1	380 – 1650					
5a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	380 – 1650	450 – 800			1	
5b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	380 – 1650	801 – 3000			1	
6a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	380 – 1650	450 – 800				
6b	run up block AF 13 mm 13	TFFH0080- ...	1	380 – 1650	801 – 3000				
7a	sec.sash gear 16 sz 30	TGKS0010- ...	1	380 – 1250	450 – 600	180			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601 – 800	300			
7b	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801 – 1000	400			
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001 – 1200	500			
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201 – 1400	600			
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401 – 1600	700			
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601 – 1800	700			
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801 – 2000	1000			
	sec.sash gear 16AF200/G10002SB	TGKS4110- ...			2001 – 3000	1000			
8	locking bolt AF VSO RSA 11	TESC2030- ...	1	380 – 480	450 – 3000		1		
9	striker plate A0767	TRSA0010- ...	1	380 – 480	450 – 3000				
10	linkage AF sz 1	TZZS0150- ...	1		2201 – 2400				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2401 – 2600				
	linkage AF sz 1	TZZS0150- ...			2601 – 2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801 – 3000				
11	linkage AF sz 2 1SB-RS	TZKS1030- ...	1		2601 – 2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801 – 3000				
12	striker plate 56 A2000	TRSB0030- ...	1		801 – 1000				
	striker plate 56 A2000	TRSB0030- ...			1001 – 1200				
	striker plate 56 A2000	TRSB0030- ...			1201 – 1400				
	striker plate 56 A2000	TRSB0030- ...			1401 – 1600				
	striker plate 56 A2000	TRSB0030- ...	2		1601 – 2400				
	striker plate 56 A2000	TRSB0030- ...	3		2401 – 2800				
	striker plate 56 A2000	TRSB0030- ...	4		2801 – 3000				
13	striker V	Ref. PDB, FRZV01							
14	striker plate S-RS	Ref. PDB, TRSK							
15	striker plate S 56	Ref. PDB, TRSM							
on request									
16	striker snapper AF A0767	TRST0100- ...	1		1801 – 3000				
17	stop 2,2mm	710937	1						

Hinge side turning points				
Pos.	Description	Part number		required as per sash weight
		surface TS	RAL7037	80 kg
18	stay arm AX DF/3	Ref. PDB, TSAV47		1
19	corner hinge AX	Ref. PDB, TBEB41		1
20	cover cap AX EL	Ref. PDB, TKEL41		1
21	bottom hinge AX DF/3	Ref. PDB, TBEV43		1

Frame dimensions

3-sash Centre sash second opening turn
PVC GK Hinge side axxent 24+



Dimensions in mm

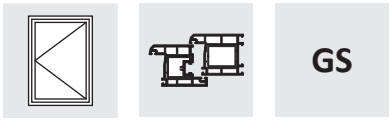
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB (frame rebate width) = FFB
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	380– 480	
1B	71	481–1650	
1C	435	851–1050	
	635	1051–1450	
	931	1451–1650	
2A	130	380–1650	
2B	419	851–1050	
	619	1051–1450	
	915	1451–1650	
4A	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
4B	400		1601–1800
	600		1801–2000
	800		2001–3000
4C	448		2401–2600
	448		2801–3000
4D	648		2601–2800
	848		2801–3000

TITAN AF

Installation instructions



1-sash square turn

PVC

basic security

fixed handle position

Hinge side axxent 24+

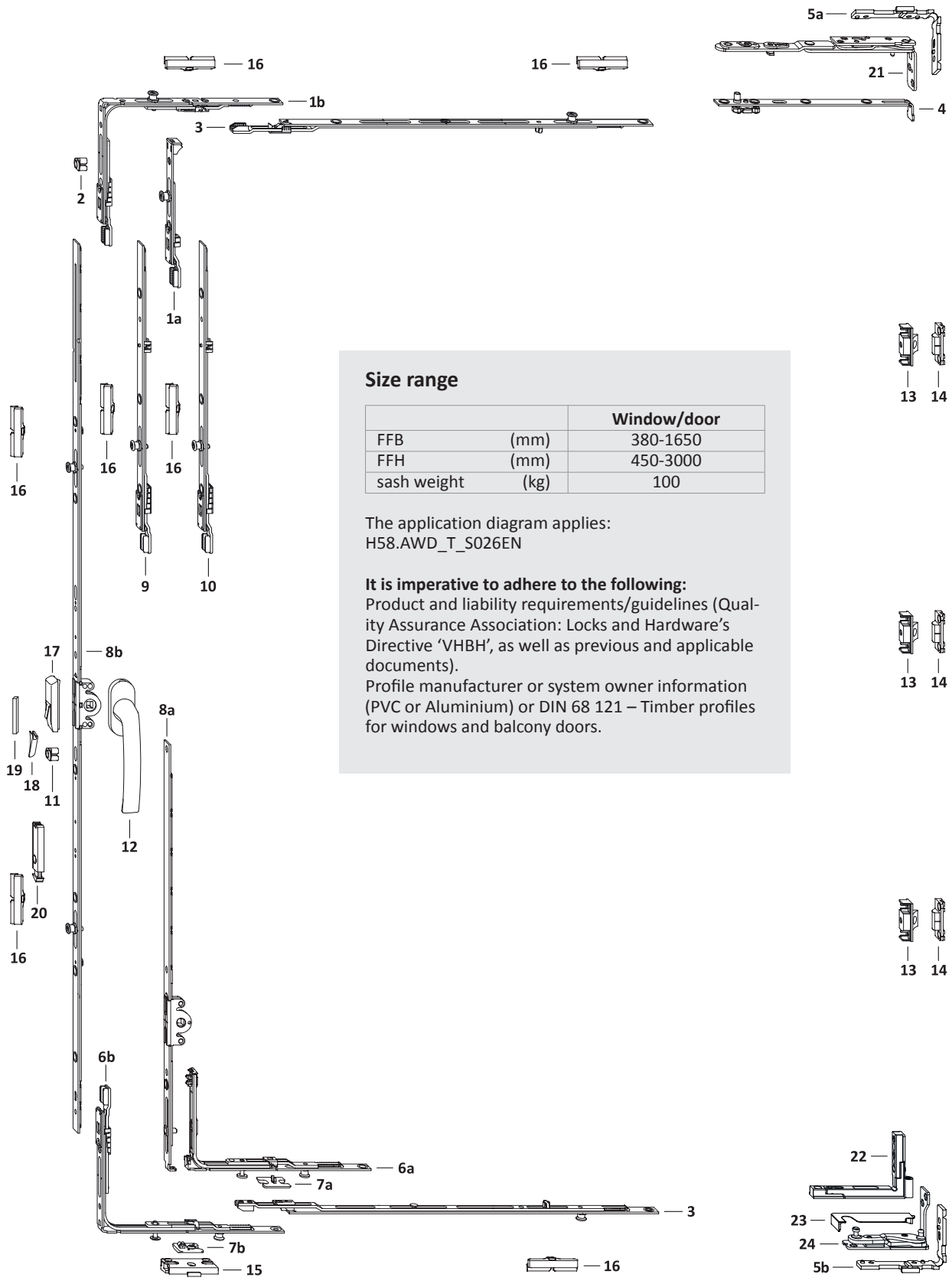
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear

hardware layout

1-sash square turn
PVC GK Hinge side axxent 24+

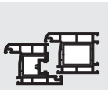
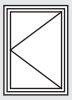


Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	450-3000
sash weight	(kg)	100

The application diagram applies:
H58.AWD_T_S026EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

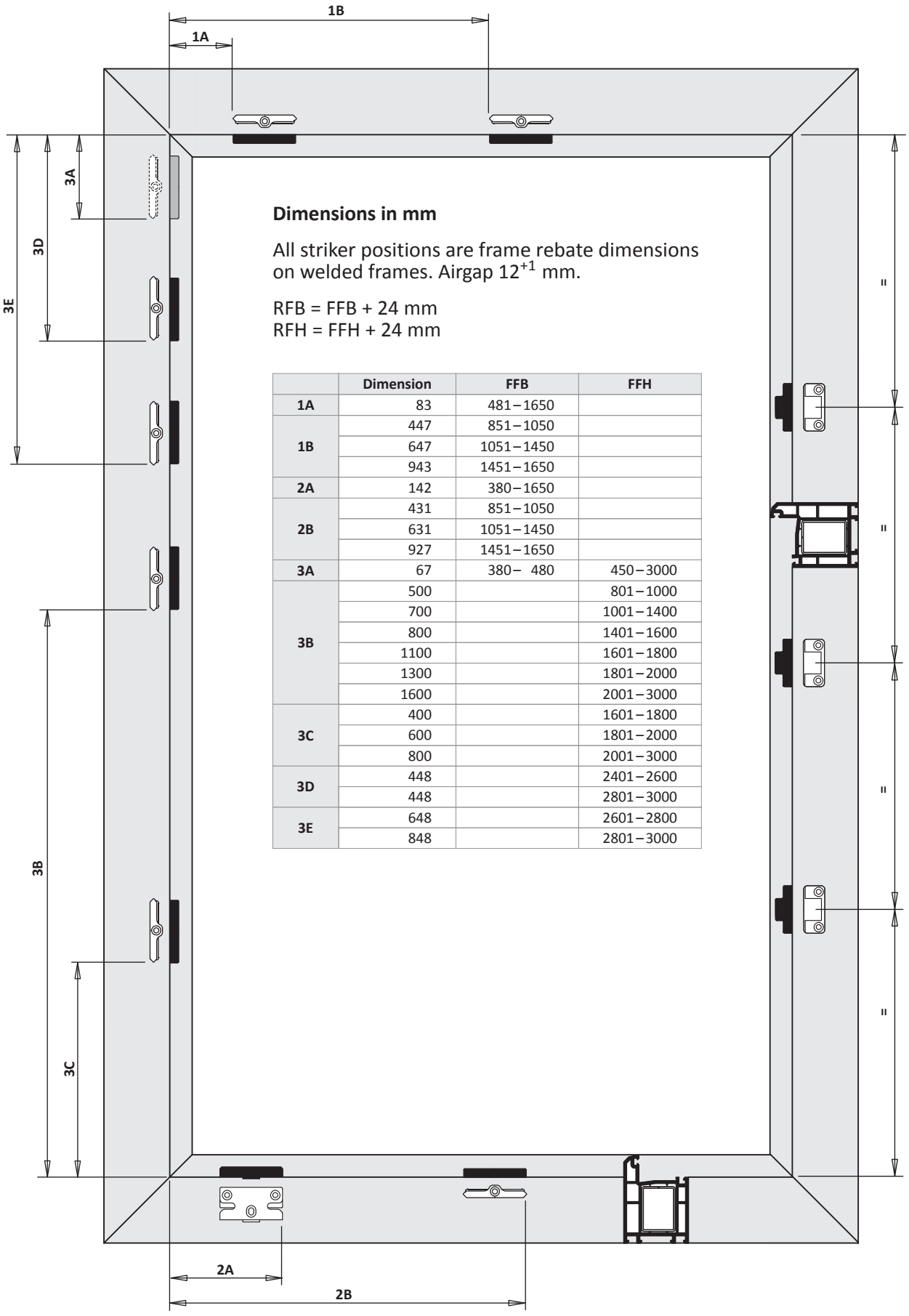



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							15	16
1a	locking bolt AF VS 180° 1RS	TESC2020- ...	1	380– 480				1
1b	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	481–1650				1
2	travel restrictor	TFHB0010- ...	1	380–1250	450– 600			
3	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851–1050				2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				2
4	stay sash part DF AX	TSSV3020- ...	1	380–1650				
5	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650				
6a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	380–1250	450– 600		1	
6b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	380–1650	601–3000		1	
7a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	380–1250	450– 600			
7b	run up block AF 13 mm 13	TFFH0080- ...	1	380–1650	601–3000			
8a	gear 15 sz 30/G180	TGKK3010- ...	1	380–1250	450– 600	180		
8b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		2
9	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			1
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
10	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
11	travel restrictor	TFHB0010- ...	1		601–3000			
12	handle Globe	Ref.access. ZHGS	1		450–3000			
13	sash part MV	Ref. PDB, ZFMV01	1		801–1600			
	sash part MV	Ref. PDB, ZFMV01	2		1601–2400			
	sash part MV	Ref. PDB, ZFMV01	3		2401–3000			
14	frame part MV	Ref. PDB, ZRZM01	1		801–1600			
	frame part MV	Ref. PDB, ZRZM01	2		1601–2400			
	frame part MV	Ref. PDB, ZRZM01	3		2401–3000			
15	striker plate S-RS	Ref. PDB, TRSK						
16	striker plate S 56	Ref. PDB, TRSM						
on request								
17	mishandling device	TFBS0010- ...	1					
18	pressure piece	Ref. PDB, TFFD	1					
19	stop	Ref. PDB, FRZF01	1					
20	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

Hinge side turning points				
Pos.	Description	Part number		required as per sash weight
		surface TS	RAL7037	100 kg
21	stay arm AX DF	Ref. PDB, TSAV46		1
22	corner hinge AX	Ref. PDB, TBEB41		1
23	cover cap AX EL	Ref. PDB, TKEL41		1
24	bottom hinge AX	Ref. PDB, TBEV41		1

Frame dimensions

1-sash square turn
PVC GK Hinge side axxent 24+



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	447	851–1050	
	647	1051–1450	
	943	1451–1650	
2A	142	380–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	380– 480	450–3000
3B	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3C	400		1601–1800
	600		1801–2000
	800		2001–3000
3D	448		2401–2600
	448		2801–3000
3E	648		2601–2800
	848		2801–3000

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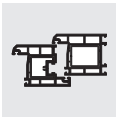
Installation instructions



GS

1-sash square tilt-turn

PVC

basic security

fixed handle position

Hinge side axxent 24+

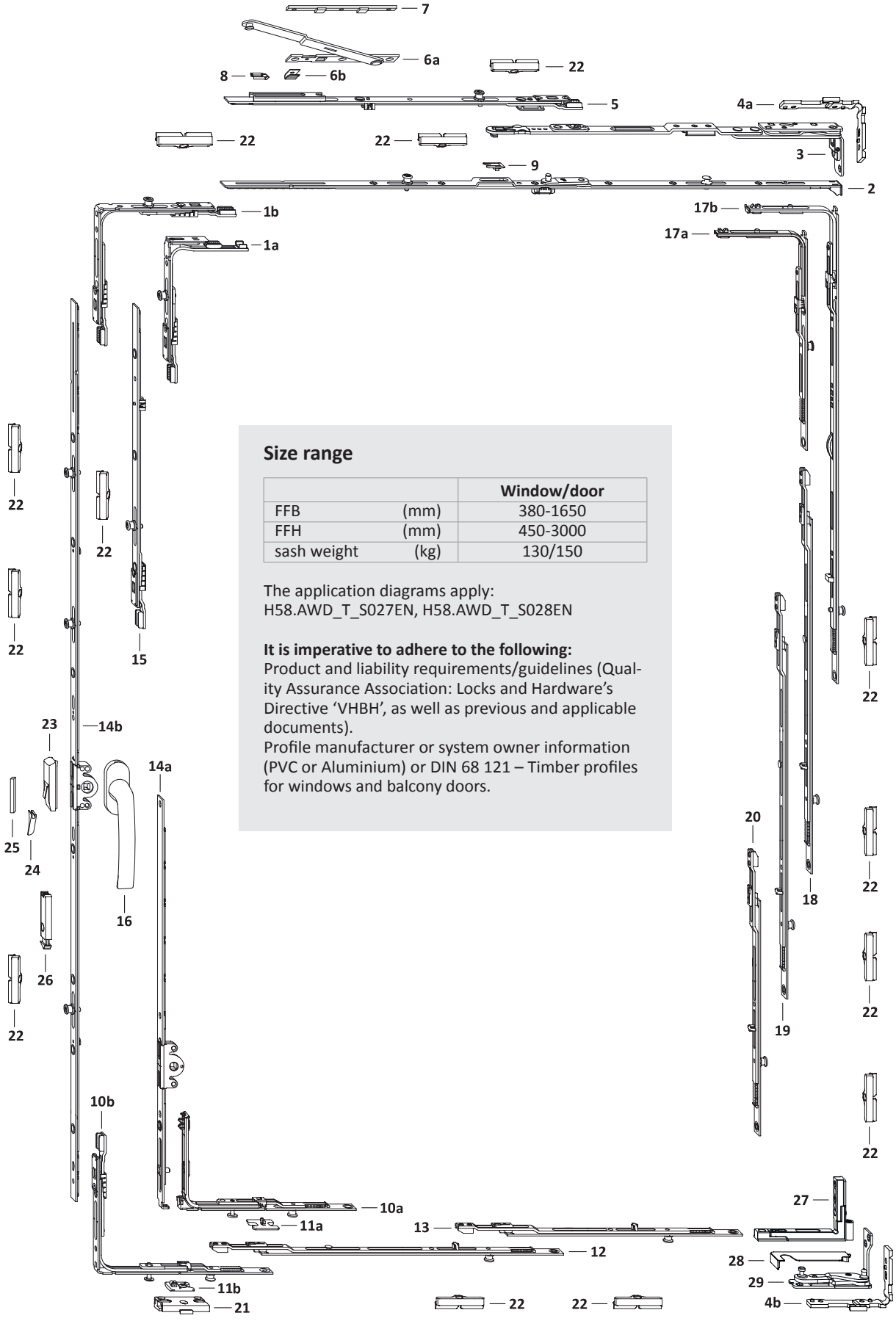
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS

hardware layout

1-sash square tilt-turn
PVC GK Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
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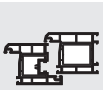
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

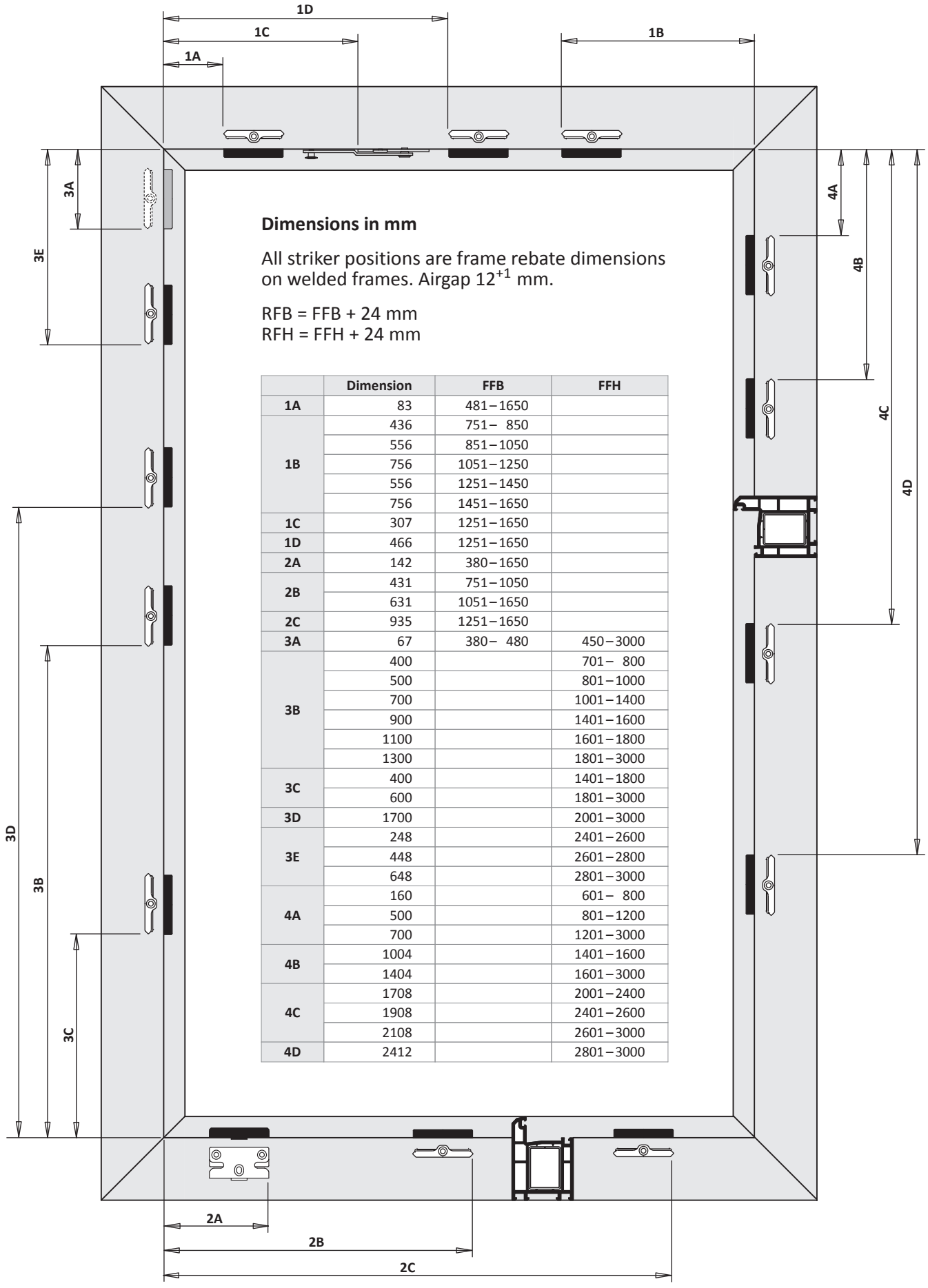
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							21	22
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	380– 480				1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	380– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 750				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751– 850				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	380– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	450– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	450– 900			
10a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	380–1250	450– 600		1	
10b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	380–1650	601–3000		1	
11a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	380–1250	450– 600			
11b	run up block AF 13 mm 13	TFFH0080- ...	1	380–1650	601–3000			
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	751–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
14a	gear 15 sz 30/G180	TGKK3010- ...	1	380–1250	450– 600	180		
14b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 700	300		
	gear 15 AF sz 70/G300 1RS	TGKK4040- ...			701– 800	300		1
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		1
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401–1600	700		2
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		2
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001–2200	1000		3
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201–3000	1000		3
15	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401–2600			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601–2800			1
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801–3000			1
16	handle Globe	Ref.access. ZHGS	1		450–3000			
17a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		601– 800			1
17b	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
21	striker plate S-RS	Ref. PDB, TRSK						
22	striker plate S 56	Ref. PDB, TRSM						
on request								
23	mishandling device	TFBS0010- ...	1					
24	pressure piece	Ref. PDB, TFFD	1					
25	stop	Ref. PDB, FRZF01	1					
26	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

List of fittings

1-sash square tilt-turn
PVC GK Hinge side axxent 24+



Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
27	corner hinge AX	Ref. PDB, TBEB41		1	1
28	cover cap AX EL	Ref. PDB, TKEL41		1	1
29	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

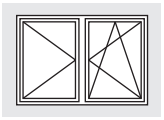
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	436	751– 850	
	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	380–1650	
2B	431	751–1050	
	631	1051–1650	
2C	935	1251–1650	
3A	67	380– 480	450–3000
3B	400		701– 800
	500		801–1000
	700		1001–1400
	900		1401–1600
	1100		1601–1800
	1300		1801–3000
3C	400		1401–1800
	600		1801–3000
3D	1700		2001–3000
3E	248		2401–2600
	448		2601–2800
	648		2801–3000
4A	160		601– 800
	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1404		1601–3000
4C	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4D	2412		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

fixed handle position

Hinge side axxent 24+

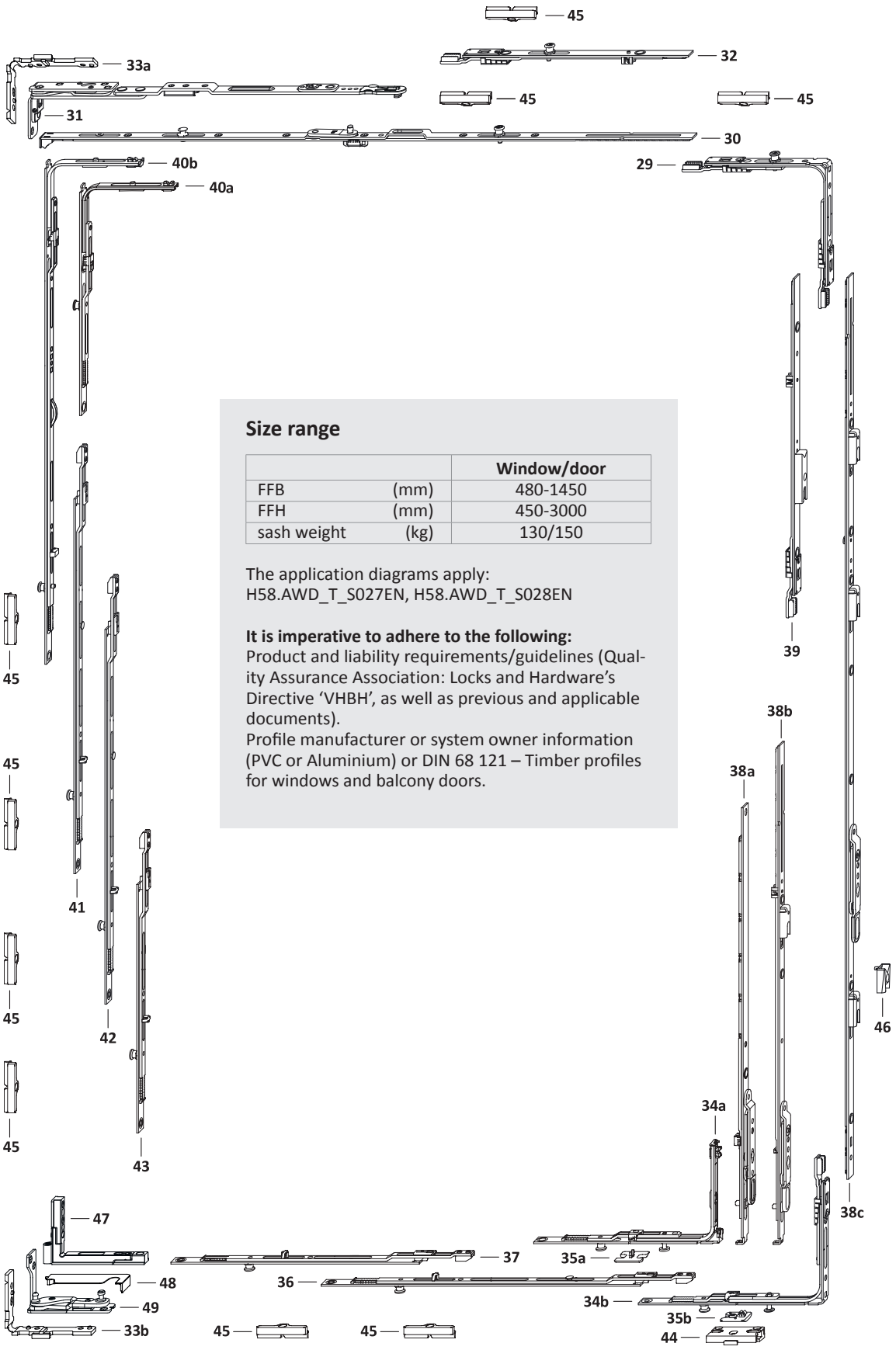
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700; secondary sash with DK-stay
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	480-1450
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
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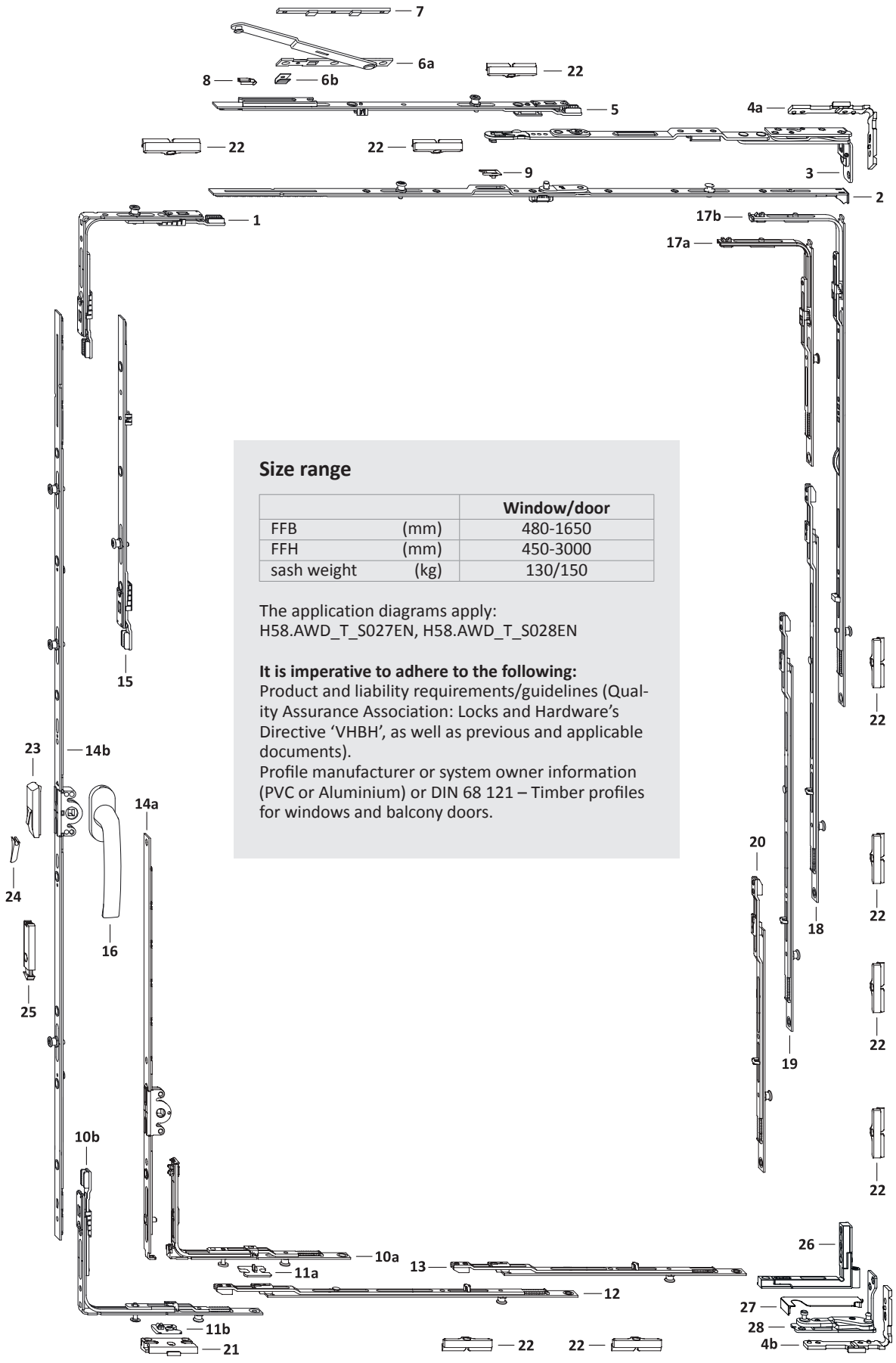

Size range

		Window/door
FFB	(mm)	480-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
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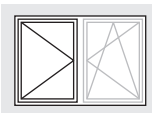
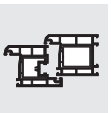
List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





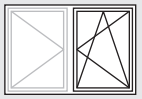
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	44	45
29	corn.drive VSO 1RS	TEUL4010- ...	1	480–1450				1
30	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 750				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751– 850				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1450				1
31	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1450				
32	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
33	crt. accessories AX	Ref. PDB, TMZV41	1	1251–1450				
34a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480–1450	450– 800		1	
34b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480–1450	801–3000		1	
35a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480–1450	450– 800			
35b	run up block AF 13 mm 13	TFFH0080- ...	1	480–1450	801–3000			
36	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	751–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
37	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1450				1
38a	sec.sash gear 16 sz 30	TGKS0010- ...	1	480–1250	450– 600	180		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300		
38b	sec.sash gear 16 AF70/G300 1SB	TGKS4040- ...	1		701– 800	300		
38c	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400		
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500		
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600		
	sec.sash gear 16 AF140/G700 2S 70	TGKS4290- ...			1401–1600	700		
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700		
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000		
	sec.sash gear 16 AF200/G1000 3 70	TGKS4280- ...			2001–2200	1000		
	sec.sash gear 16 AF220/G1000 3 70	TGKS4320- ...			2201–3000	1000		
39	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2600			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2601–2800			
	linkage AF sz 3 1SB-RS	TZKS1080- ...			2801–3000			
40a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		601– 800			1
40b	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
41	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
42	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
43	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
44	striker plate S-RS	Ref. PDB, TRSK						
45	striker plate S 56	Ref. PDB, TRSM						
on request								
46	striker snapper AF A0767	TRST0100- ...	1		1801–3000			

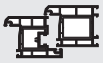
Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
47	corner hinge AX	Ref. PDB, TBEB41		1	1
48	cover cap AX EL	Ref. PDB, TKEL41		1	1
49	bottom hinge AX	Ref. PDB, TBEV41		1	1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							21	22
1	corn.drive VSO 1RS	TEUL4010- ...	1	480–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 750				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751– 850				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	480–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050				
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250				
10a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480–1250	450– 600		1	
10b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480–1650	601–3000		1	
11a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480–1250	450– 600			
11b	run up block AF 13 mm 13	TFFH0080- ...	1	480–1650	601–3000			
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	751–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
14a	gear 15 sz 30/G180	TGKK3010- ...	1	480–1250	450– 600	180		
14b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 700	300		
	gear 15 AF sz 70/G300 1RS	TGKK4040- ...			701– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401–1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001–2200	1000		
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201–3000	1000		
15	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401–2600			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601–2800			
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801–3000			
16	handle Globe	Ref.access. ZHGS	1		450–3000			
17a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		601– 800			1
17b	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
21	striker plate S-RS	Ref. PDB, TRSK						
22	striker plate S 56	Ref. PDB, TRSM						
on request								
23	mishandling device	TFBS0010- ...	1		601–3000			
24	pressure piece	Ref. PDB, TFFD	1		601–3000			
25	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

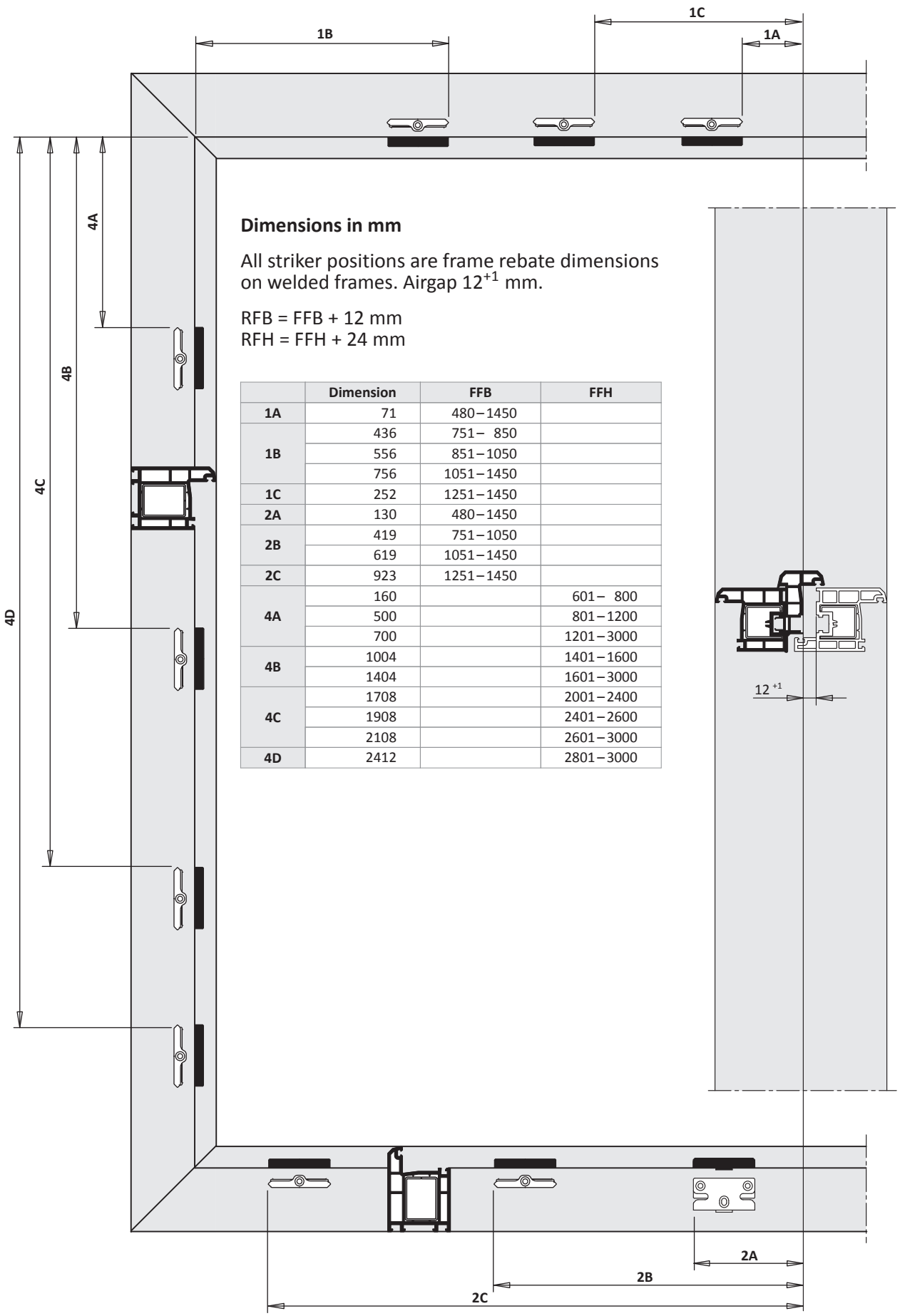
List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
26	corner hinge AX	Ref. PDB, TBEB41		1	1
27	cover cap AX EL	Ref. PDB, TKEL41		1	1
28	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

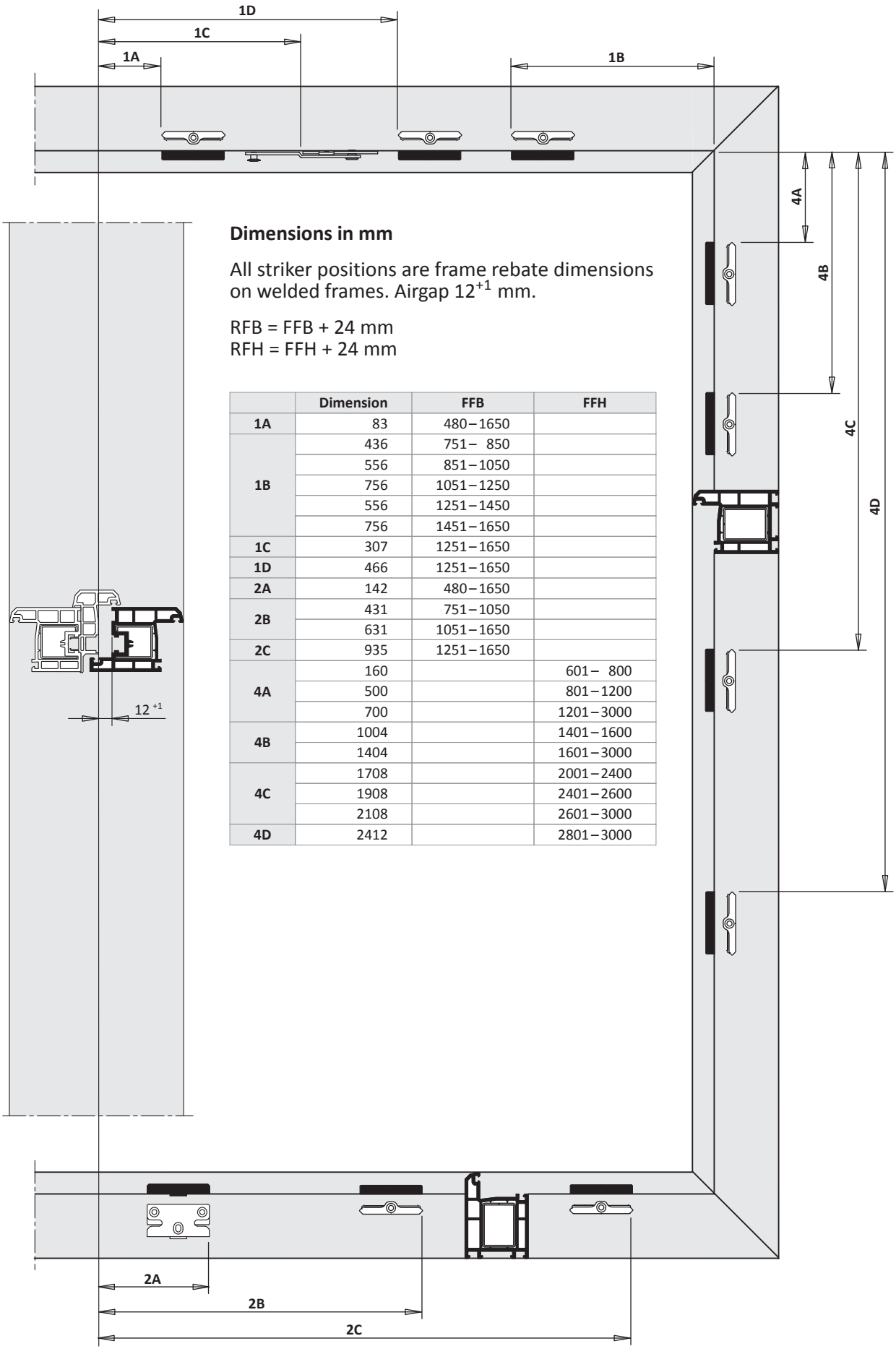
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	480–1450	
1B	436	751– 850	
	556	851–1050	
	756	1051–1450	
1C	252	1251–1450	
2A	130	480–1450	
2B	419	751–1050	
	619	1051–1450	
2C	923	1251–1450	
4A	160		601– 800
	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1404		1601–3000
4C	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4D	2412		2801–3000

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+



Dimensions in mm

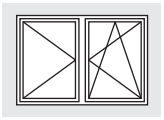
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	436	751– 850	
	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	480–1650	
2B	431	751–1050	
	631	1051–1650	
2C	935	1251–1650	
4A	160		601– 800
	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1404		1601–3000
4C	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4D	2412		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

fixed handle position

Hinge side axxent 24+

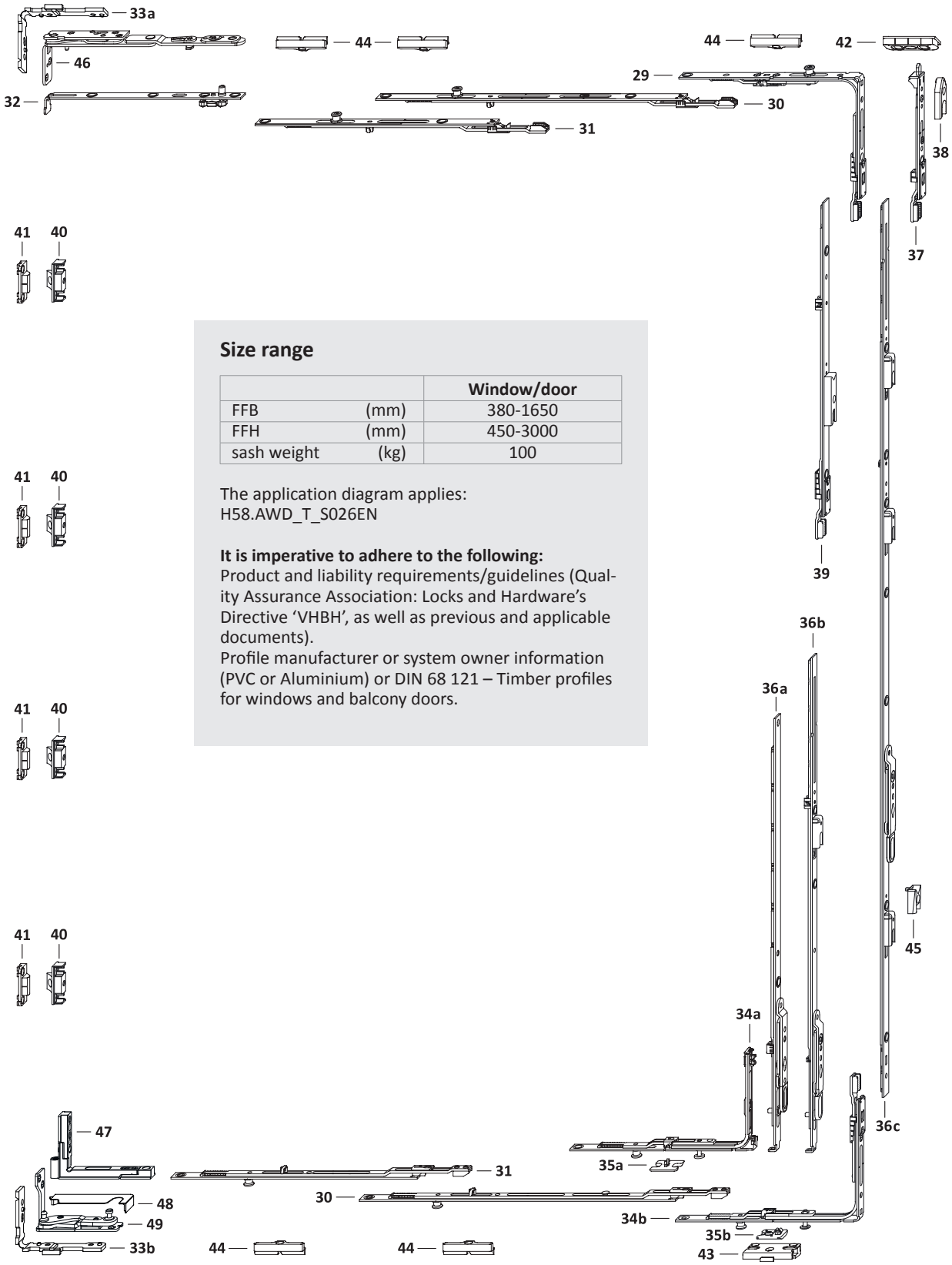
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	450-3000
sash weight	(kg)	100

The application diagram applies:
H58.AWD_T_S026EN

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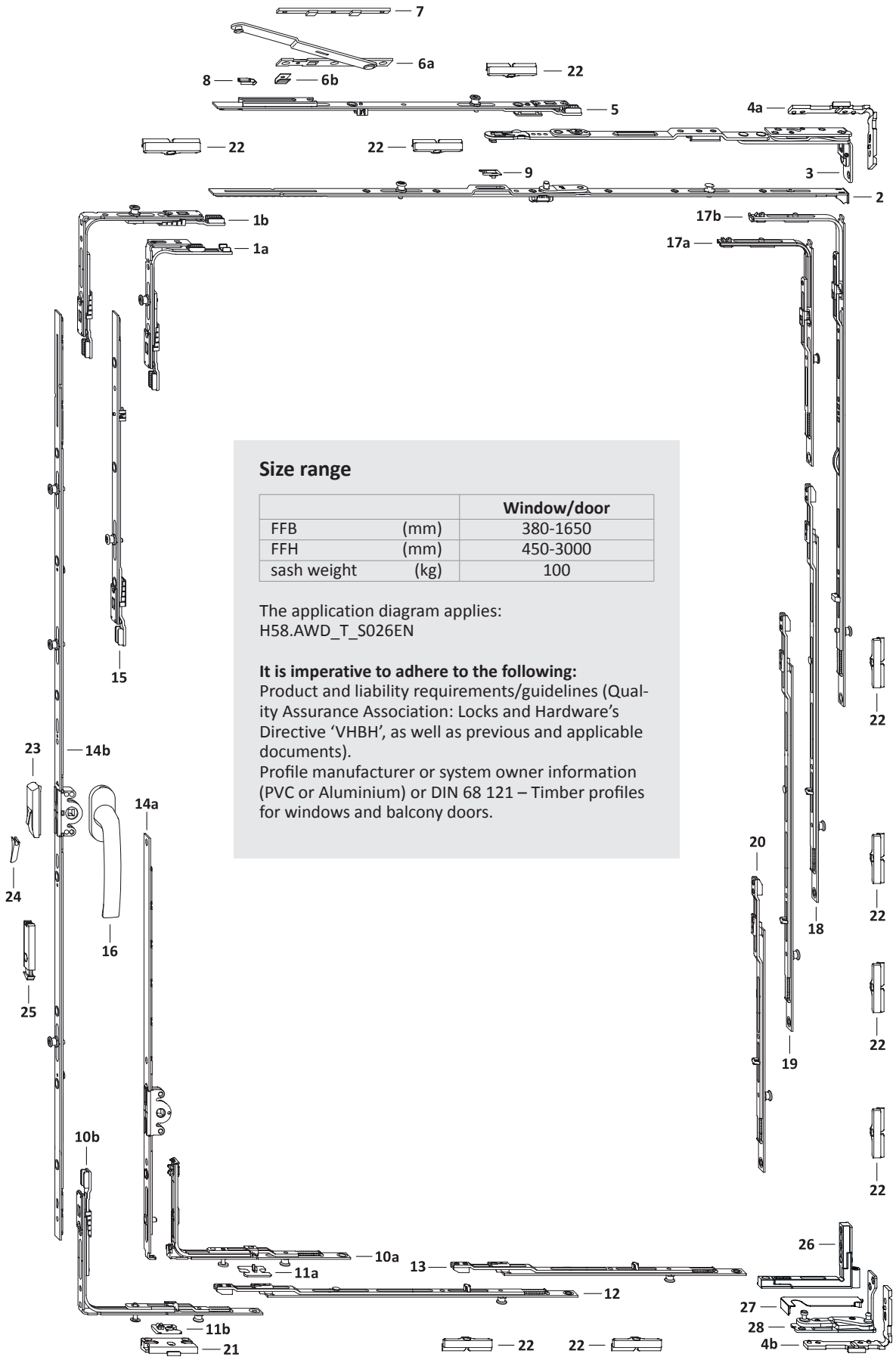

Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	450-3000
sash weight	(kg)	100

The application diagram applies:
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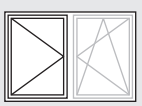
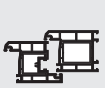
PVC GK Hinge side axxent 24+





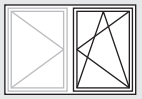
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
						In the main sash	42	43	44
29	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	481–1650					1
30	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	751–1050					2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650					2
31	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	1251–1650					2
32	stay sash part DF AX	TSSV3020- ...	1	380–1650					
33	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650					
34a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	380–1650	450– 800			1	
34b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	380–1650	801–3000			1	
35a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	380–1650	450– 800				
35b	run up block AF 13 mm 13	TFFH0080- ...	1	380–1650	801–3000				
36a	sec.sash gear 16 sz 30	TGKS0010- ...	1	380–1250	450– 600	180			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300			
36b	sec.sash gear 16 AF70/G300 1SB	TGKS4040- ...	1		701– 800	300			
36c	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400			
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500			
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600			
	sec.sash gear 16 AF140/G700 2S 70	TGKS4290- ...			1401–1600	700			
	sec.sash gear 16 AF160/G7002SB	TGKS4090- ...			1601–1800	700			
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000			
	sec.sash gear 16 AF200/G1000 3 70	TGKS4280- ...			2001–2200	1000			
	sec.sash gear 16 AF220/G1000 3 70	TGKS4320- ...			2201–3000	1000			
37	locking bolt AF VSO RSA 11	TESC2030- ...	1	380– 480	450–3000		1		
38	striker plate A0767	TRSA0010- ...	1	380– 480	450–3000				
39	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2600				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2601–2800				
	linkage AF sz 3 1SB-RS	TZKS1080- ...			2801–3000				
40	sash part MV	Ref. PDB, ZFMV01	1		701–1400				
	sash part MV	Ref. PDB, ZFMV01	2		1401–2100				
	sash part MV	Ref. PDB, ZFMV01	3		2101–2800				
	sash part MV	Ref. PDB, ZFMV01	4		2801–3000				
41	frame part MV	Ref. PDB, ZRZM01	1		701–1400				
	frame part MV	Ref. PDB, ZRZM01	2		1401–2100				
	frame part MV	Ref. PDB, ZRZM01	3		2101–2800				
	frame part MV	Ref. PDB, ZRZM01	4		2801–3000				
42	striker V	Ref. PDB, FRZV01							
43	striker plate S-RS	Ref. PDB, TRSK							
44	striker plate S 56	Ref. PDB, TRSM							
on request									
45	striker snapper AF A0767	TRST0100- ...	1		1801–3000				

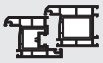
Hinge side turning points				
Pos.	Description	Part number		required as per sash weight
		surface TS	RAL7037	100 kg
46	stay arm AX DF	Ref. PDB, TSAV46		1
47	corner hinge AX	Ref. PDB, TBEB41		1
48	cover cap AX EL	Ref. PDB, TKEL41		1
49	bottom hinge AX	Ref. PDB, TBEV41		1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							21	22
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	380– 480				
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	380– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 750				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751– 850				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	380– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	450– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	450– 900			
10a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	380–1250	450– 600		1	
10b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	380–1650	601–3000		1	
11a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	380–1250	450– 600			
11b	run up block AF 13 mm 13	TFFH0080- ...	1	380–1650	601–3000			
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	751–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
14a	gear 15 sz 30/G180	TGKK3010- ...	1	380–1250	450– 600	180		
14b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 700	300		
	gear 15 AF sz 70/G300 1RS	TGKK4040- ...			701– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401–1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001–2200	1000		
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201–3000	1000		
15	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401–2600			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601–2800			
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801–3000			
16	handle Globe	Ref.access. ZHGS	1		450–3000			
17a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		601– 800			1
17b	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
21	striker plate S-RS	Ref. PDB, TRSK						
22	striker plate S 56	Ref. PDB, TRSM						
on request								
23	mishandling device	TFBS0010- ...	1		601–3000			
24	pressure piece	Ref. PDB, TFFD	1		601–3000			
25	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

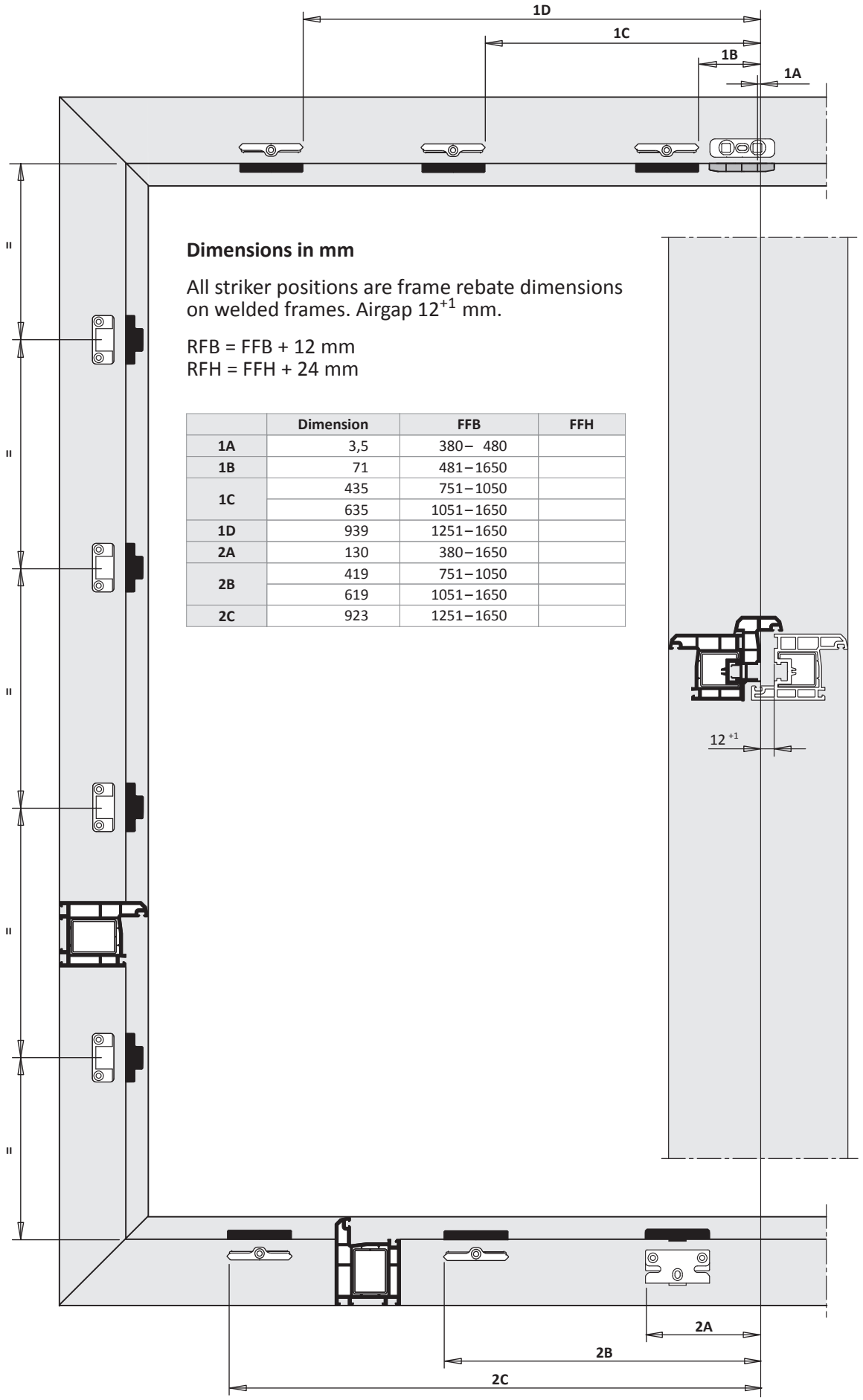
List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





Hinge side turning points				
Pos.	Description	Part number		required as per sash weight
		surface TS	RAL7037	100 kg
26	corner hinge AX	Ref. PDB, TBEB41		1
27	cover cap AX EL	Ref. PDB, TKEL41		1
28	bottom hinge AX	Ref. PDB, TBEV41		1



Dimensions in mm

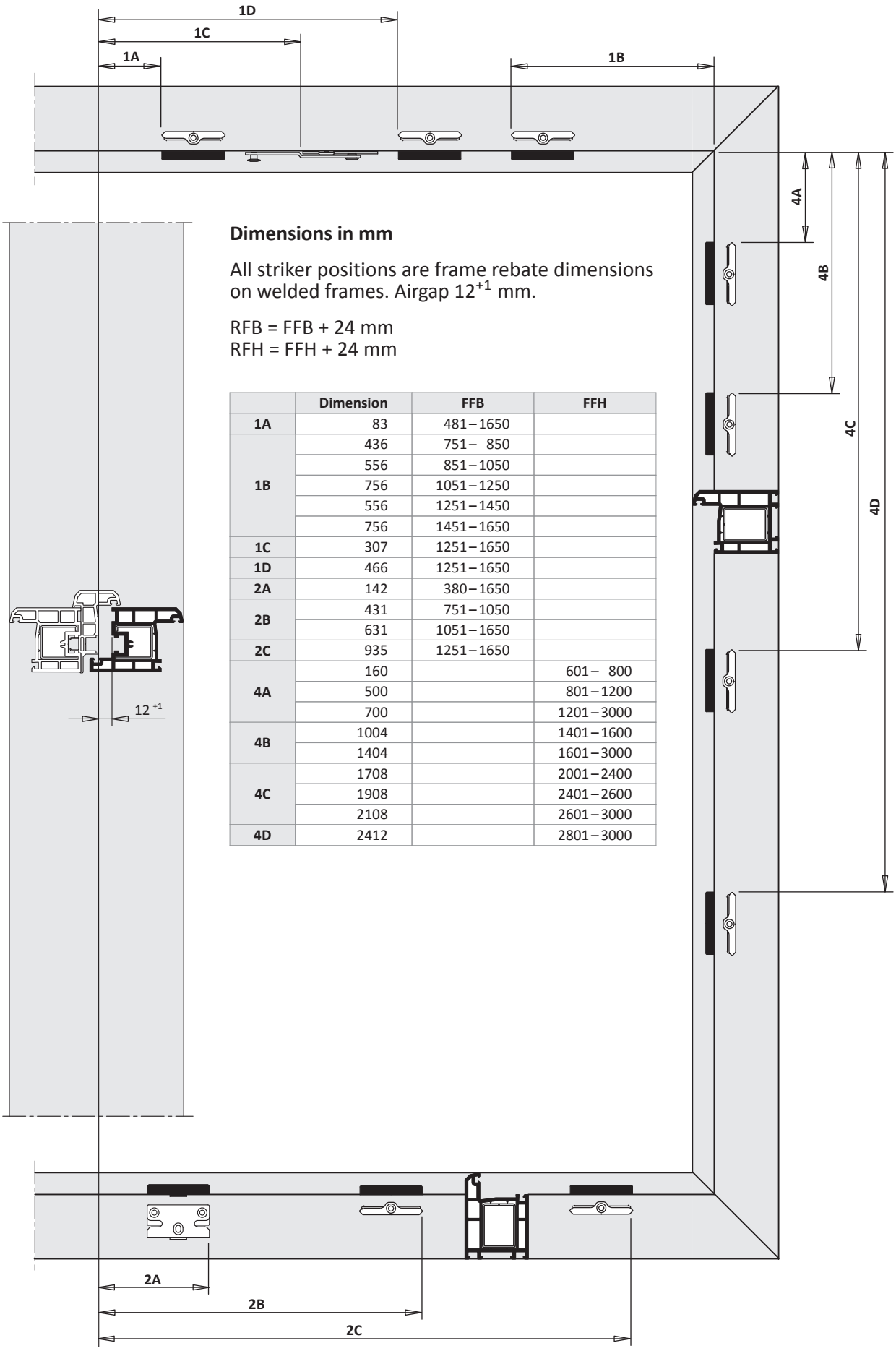
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	380– 480	
1B	71	481–1650	
1C	435	751–1050	
	635	1051–1650	
1D	939	1251–1650	
2A	130	380–1650	
2B	419	751–1050	
	619	1051–1650	
2C	923	1251–1650	

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	436	751– 850	
	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	380–1650	
2B	431	751–1050	
	631	1051–1650	
2C	935	1251–1650	
4A	160		601– 800
	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1404		1601–3000
4C	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4D	2412		2801–3000

Bottom inliner

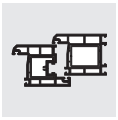
1-sash square tilt-turn	H48.TAFKFM0S033EN	3 - 3
2-sash square tilt-turn/turn DS 16 DK-stay	H48.TAFKFM0S034EN	3 - 7
2-sash square tilt-turn/turn DS 16 DF-stay	H48.TAFKFM0S035EN	3 - 15
3-sash Centre sash second opening turn	H48.TAFKFM0S036EN	3 - 23
Tilt before turn (TBT)		
1-sash square tilt before turn (TBT)	H48.TAFKFM0S038EN	3 - 27
Turning sash		
1-sash square turn	H48.TAFKFM0S037EN	3 - 31

Bottom double cam SB R-RS

1-sash square tilt-turn	H48.TAFKFM0S405EN	3 - 35
2-sash square tilt-turn/turn DS 16 DK-stay	H48.TAFKFM0S406EN	3 - 39
2-sash square tilt-turn/turn DS 16 DF-stay	H48.TAFKFM0S407EN	3 - 47
3-sash Centre sash second opening turn	H48.TAFKFM0S409EN	3 - 55
Turning sash		
1-sash square turn	H48.TAFKFM0S408EN	3 - 59
Locking-points distance 700		
1-sash square tilt-turn	H48.TAFKFM0S304EN	3 - 63
2-sash square tilt-turn/turn DS 16 DK-stay	H48.TAFKFM0S305EN	3 - 67
2-sash square tilt-turn/turn DS 16 DF-stay	H48.TAFKFM0S306EN	3 - 75

TITAN AF

Installation instructions



GS

1-sash square tilt-turn

PVC

basic security

centre handle pos. (variable)

Hinge side axxent 24+

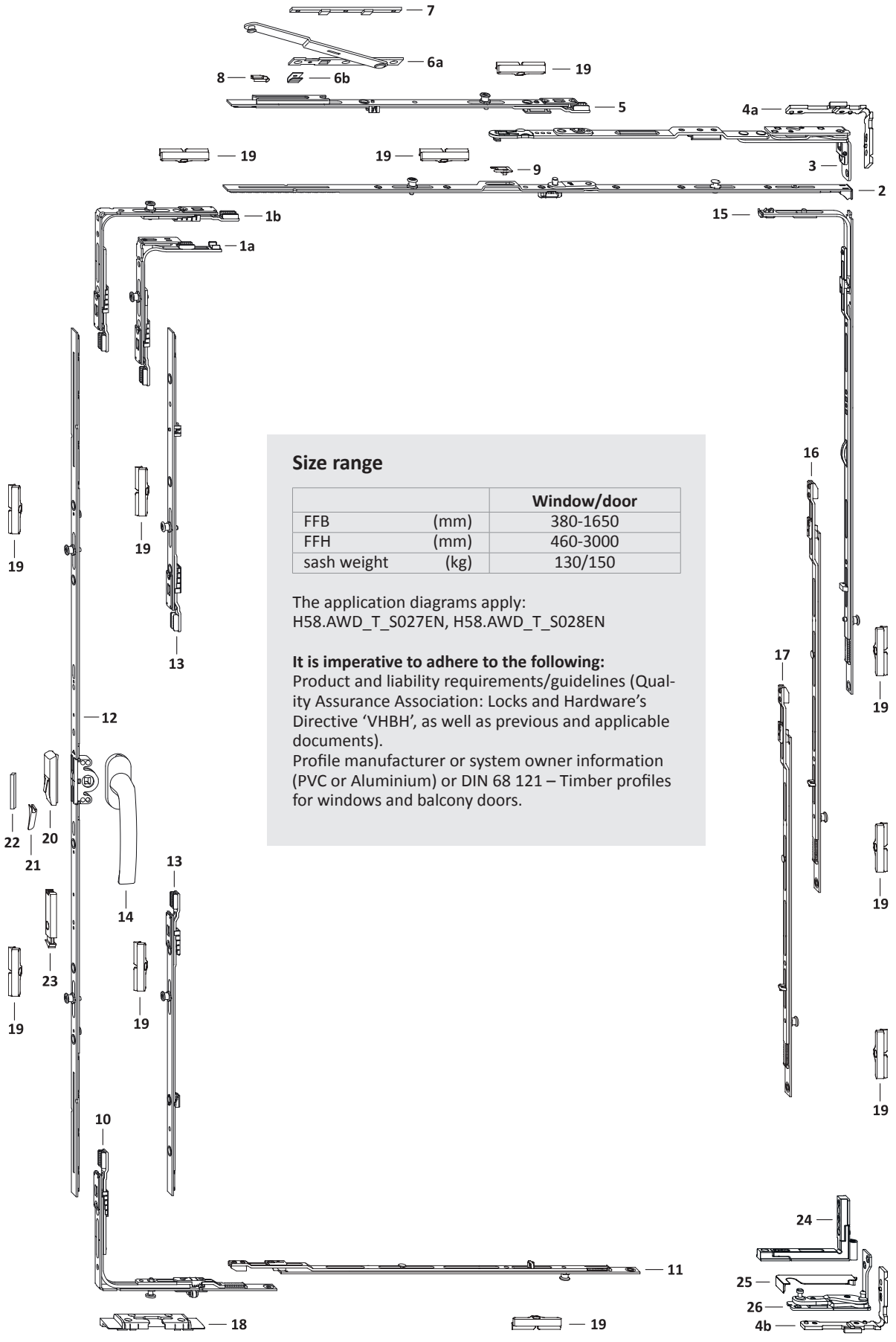
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS

hardware layout

1-sash square tilt-turn
PVC GM Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

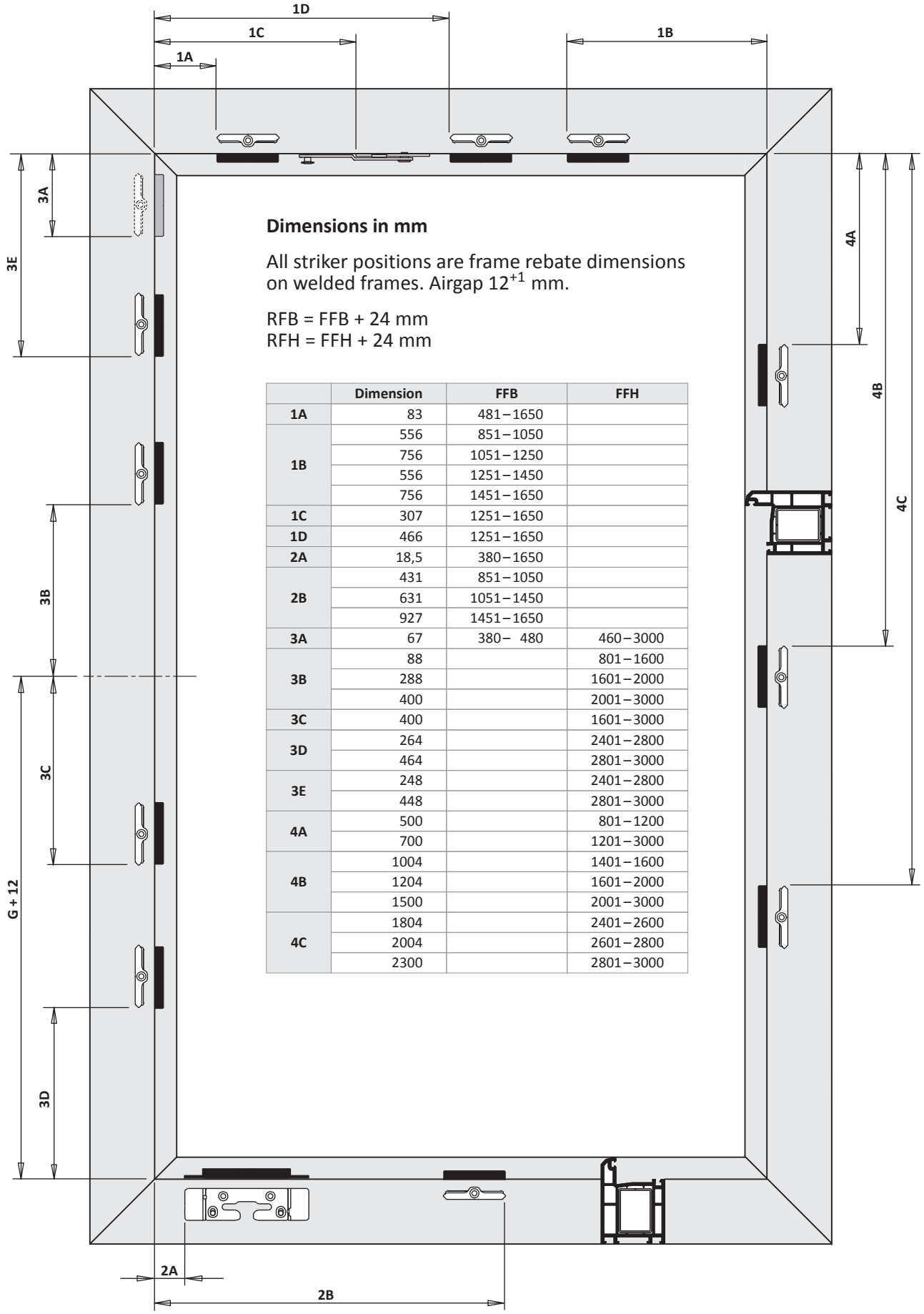
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							18	19
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	380– 480				1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	380– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	380– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	460– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	460– 900			
10	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	380–1650			1	
11	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
12	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		2
13	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
14	handle Globe	Ref.access. ZHGS	1		460–3000			
15	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
18	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
19	striker plate S 56	Ref. PDB, TRSM						
on request								
20	mishandling device	TFBS0010- ...	1					
21	pressure piece	Ref. PDB, TFFD	1					
22	stop	Ref. PDB, FRZF01	1					
23	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
24	corner hinge AX	Ref. PDB, TBEB41		1	1
25	cover cap AX EL	Ref. PDB, TKEL41		1	1
26	bottom hinge AX	Ref. PDB, TBEV41		1	1

Frame dimensions

1-sash square tilt-turn
PVC GM Hinge side axxent 24+



Dimensions in mm

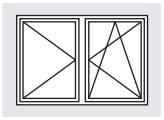
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

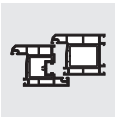
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	380–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	380– 480	460–3000
3B	88		801–1600
	288		1601–2000
	400		2001–3000
3C	400		1601–3000
3D	264		2401–2800
	464		2801–3000
3E	248		2401–2800
	448		2801–3000
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

centre handle pos. (variable)

Hinge side axxent 24+

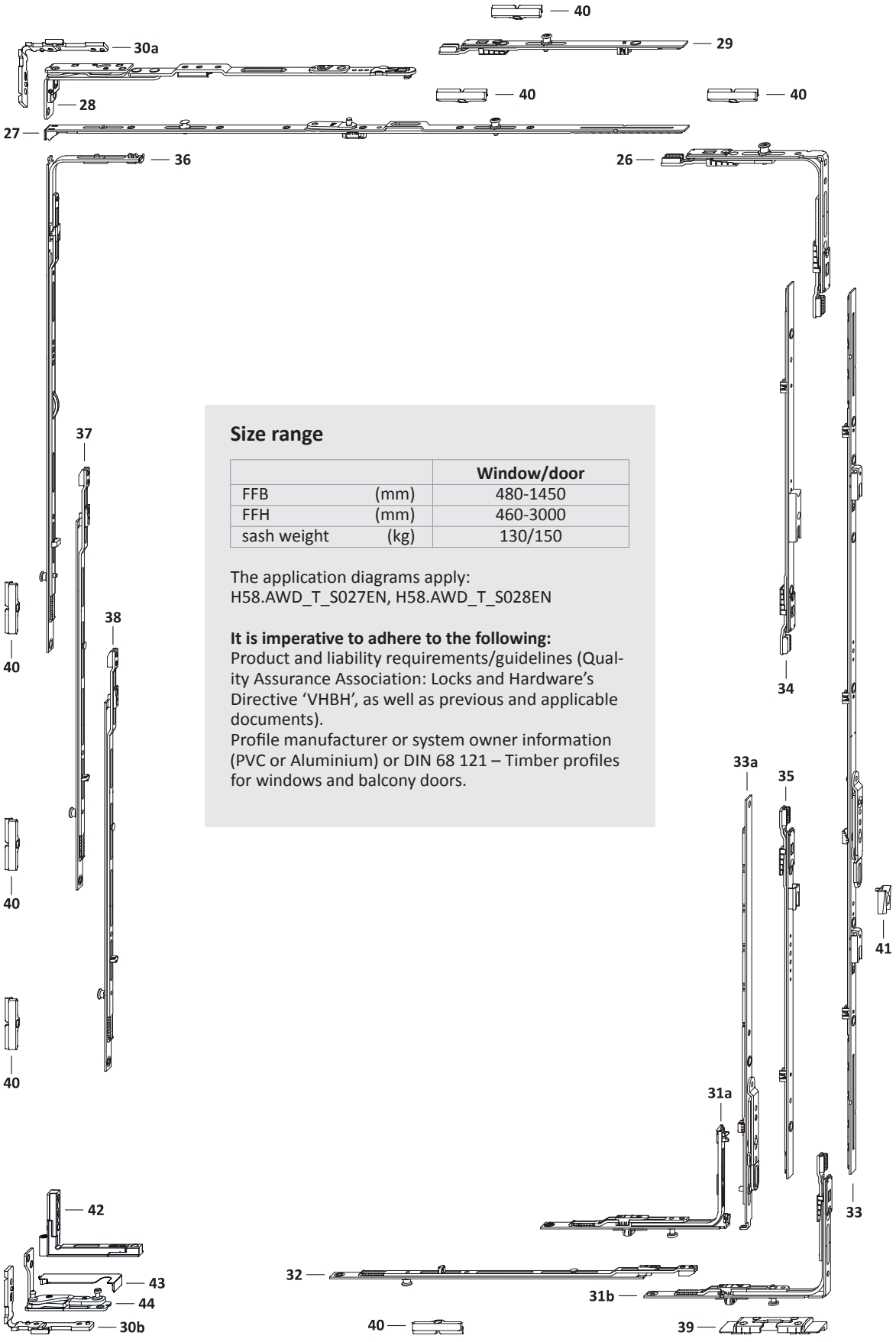
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800; secondary sash with DK-stay
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	480-1450
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
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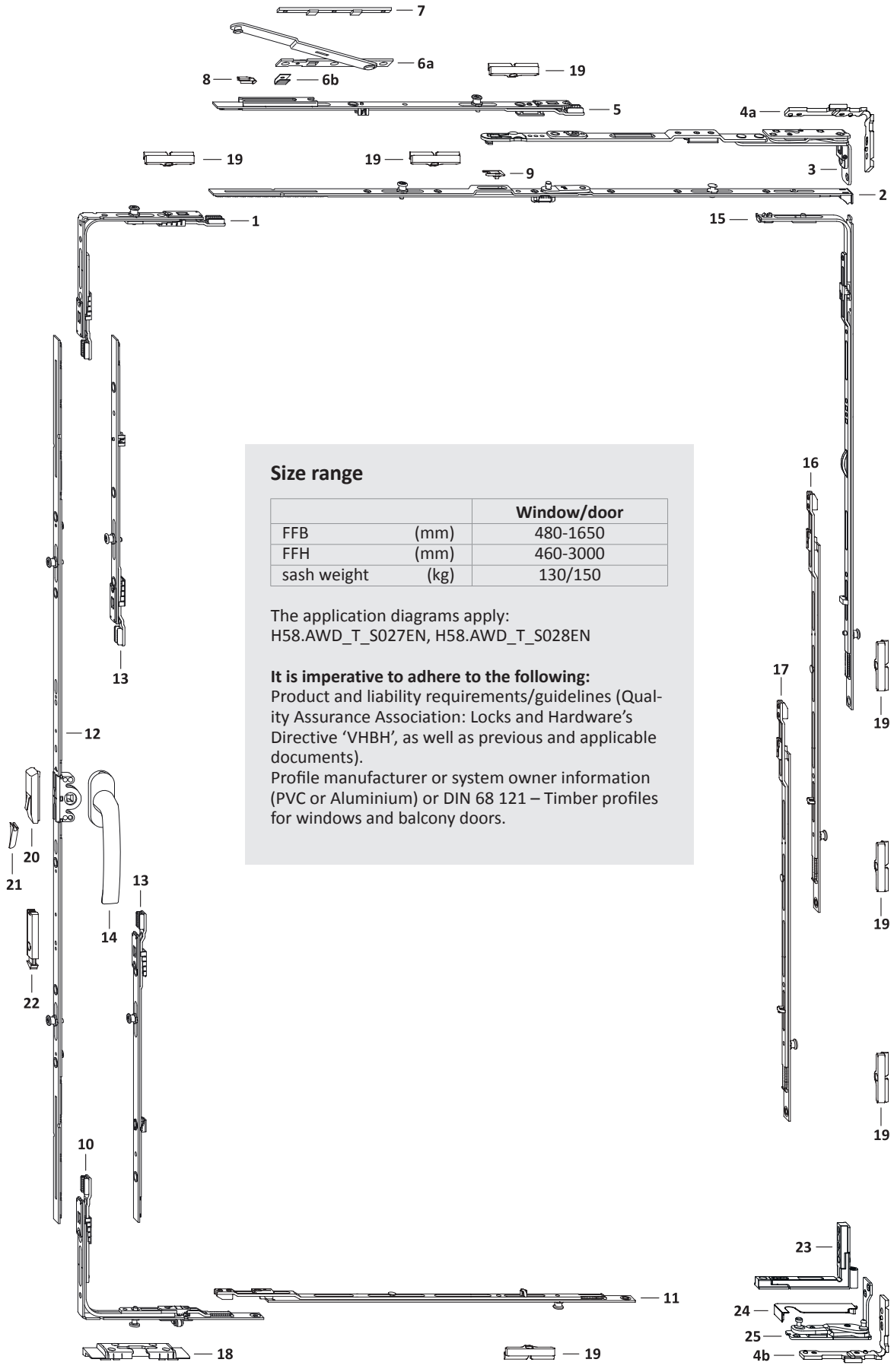

Size range

		Window/door
FFB	(mm)	480-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
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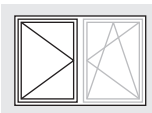
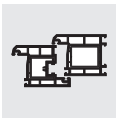
List of fittings slave sash

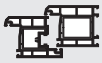
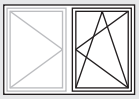
2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	39	40
26	corn.drive VSO 1RS	TEUL4010- ...	1	480–1450				1
27	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1450				1
28	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1450				
29	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
30	crt. accessories AX	Ref. PDB, TMZV41	1	1251–1450				
31a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	480–1450	460– 800		1	
31b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	480–1450	801–3000		1	
32	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
33a	sec.sash gear 16 sz 30	TGKS0010- ...	1		460– 600	230– 300		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300– 400		
33b	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...	1		801–1200	400– 600		
	sec.sash gear 16 AF sz 120 1SB	TGMS4050- ...			1201–1600	600– 800		
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000		
	sec.sash gear 16 AF sz 200 2SB	TGMS4080- ...			2001–3000	1000–1500		
34	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
35	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800			
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000			
36	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
37	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
38	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
39	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
40	striker plate S 56	Ref. PDB, TRSM						
on request								
41	striker snapper AF A0767	TRST0100- ...	1		1601–3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
42	corner hinge AX	Ref. PDB, TBEB41		1	1
43	cover cap AX EL	Ref. PDB, TKEL41		1	1
44	bottom hinge AX	Ref. PDB, TBEV41		1	1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+

TITAN AF

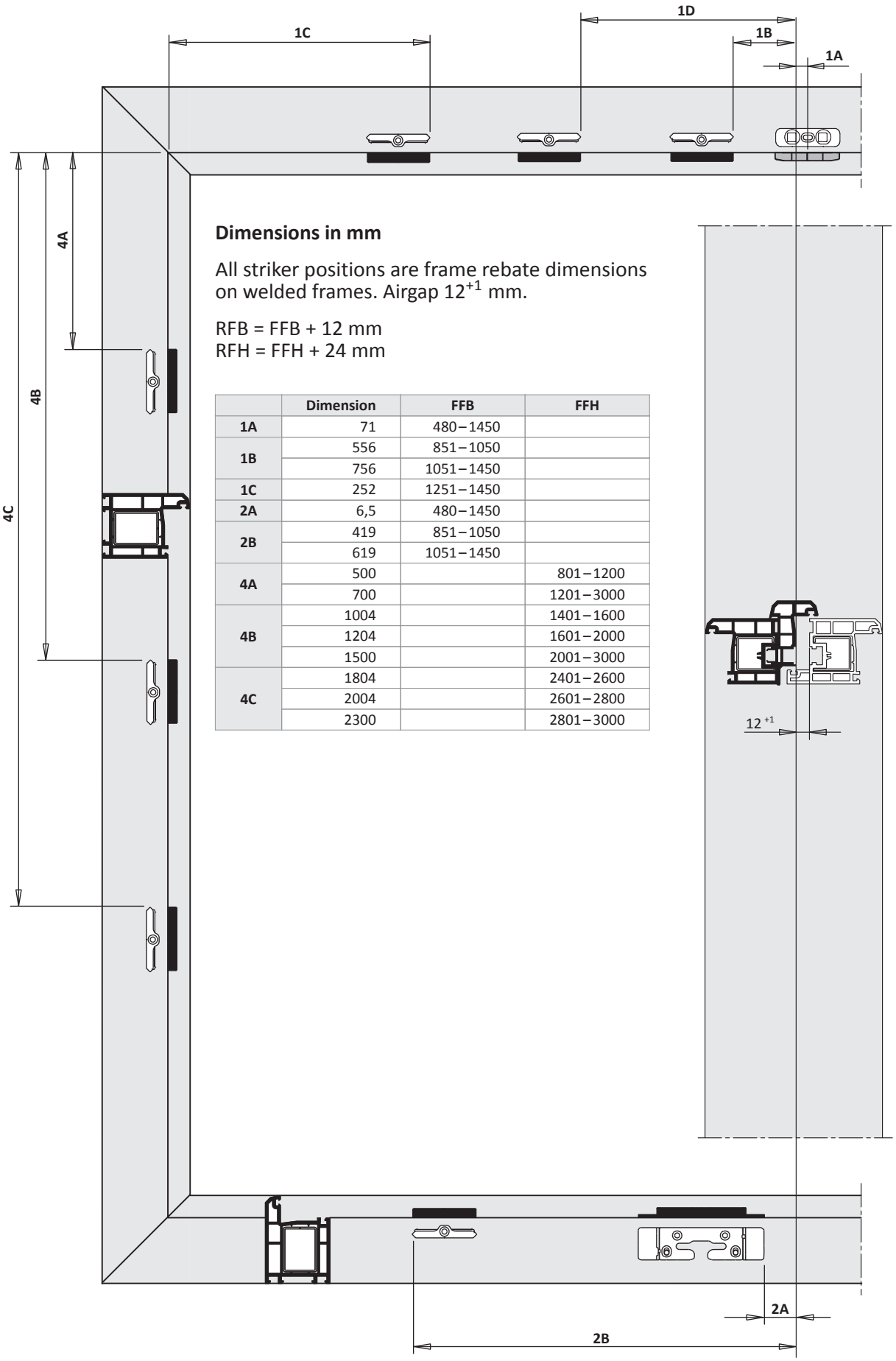
GS

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							18	19
1	corn.drive VSO 1RS	TEUL4010- ...	1	480–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	480–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	460– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	460– 900			
10	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	480–1650			1	
11	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
12	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		
13	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
14	handle Globe	Ref.access. ZHGS	1		460–3000			
15	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
18	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
19	striker plate S 56	Ref. PDB, TRSM						
on request								
20	mishandling device	TFBS0010- ...	1		601–3000			
21	pressure piece	Ref. PDB, TFFD	1		601–3000			
22	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
23	corner hinge AX	Ref. PDB, TBEB41		1	1
24	cover cap AX EL	Ref. PDB, TKEL41		1	1
25	bottom hinge AX	Ref. PDB, TBEV41		1	1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+

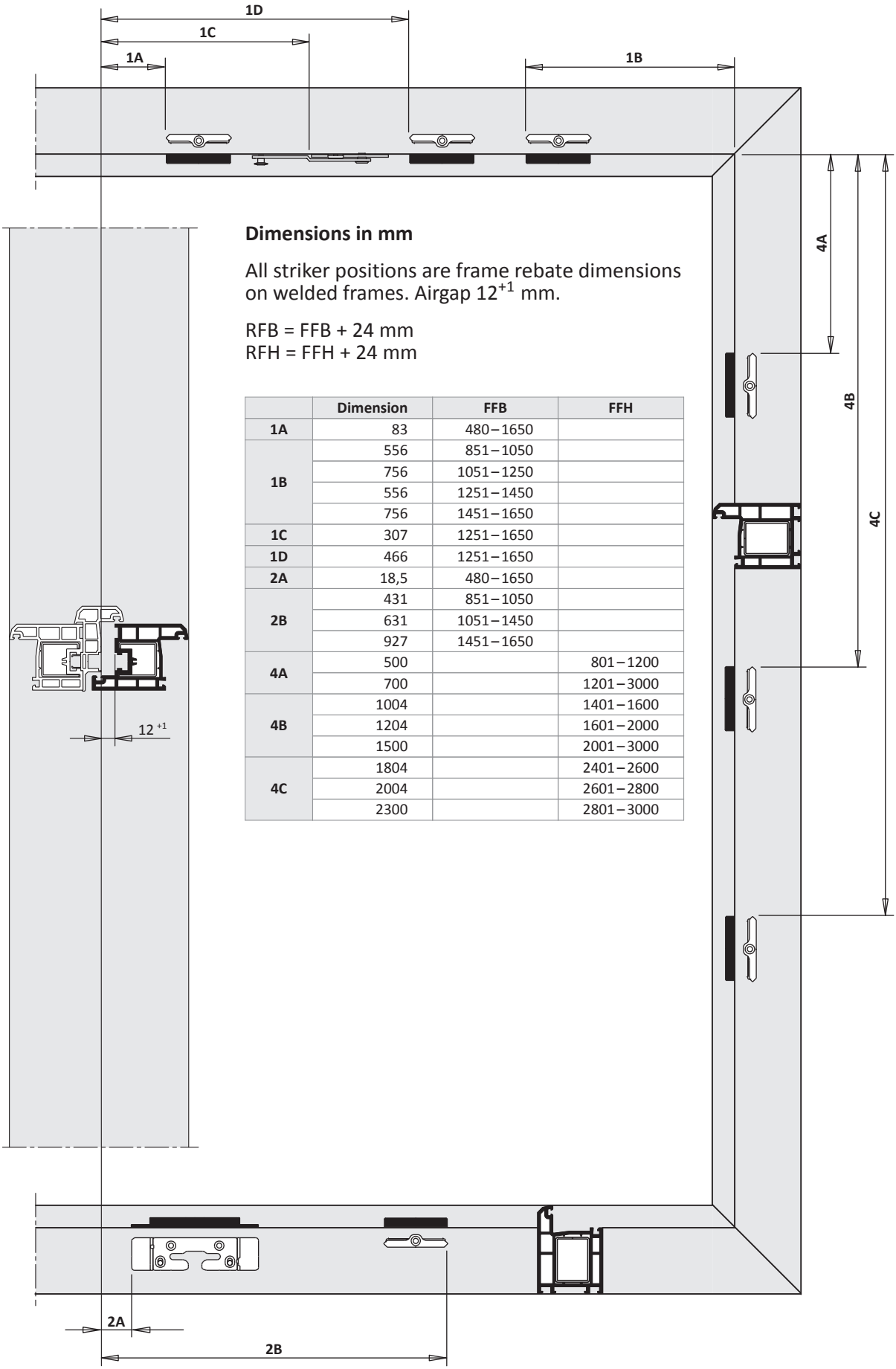


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	480–1450	
1B	556	851–1050	
	756	1051–1450	
1C	252	1251–1450	
2A	6,5	480–1450	
2B	419	851–1050	
	619	1051–1450	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000



Dimensions in mm

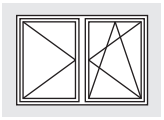
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	480–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

centre handle pos. (variable)

Hinge side axxent 24+

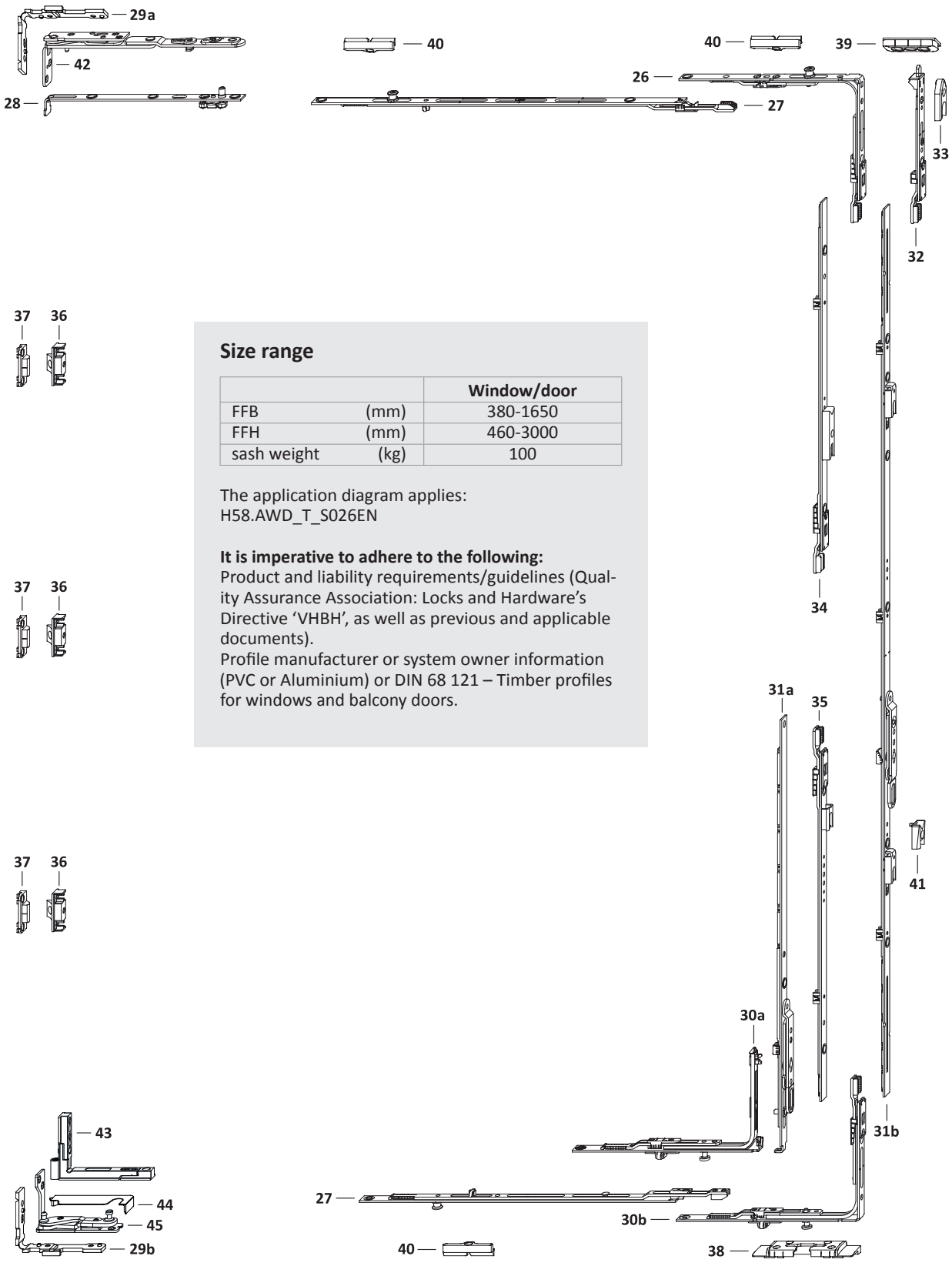
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+

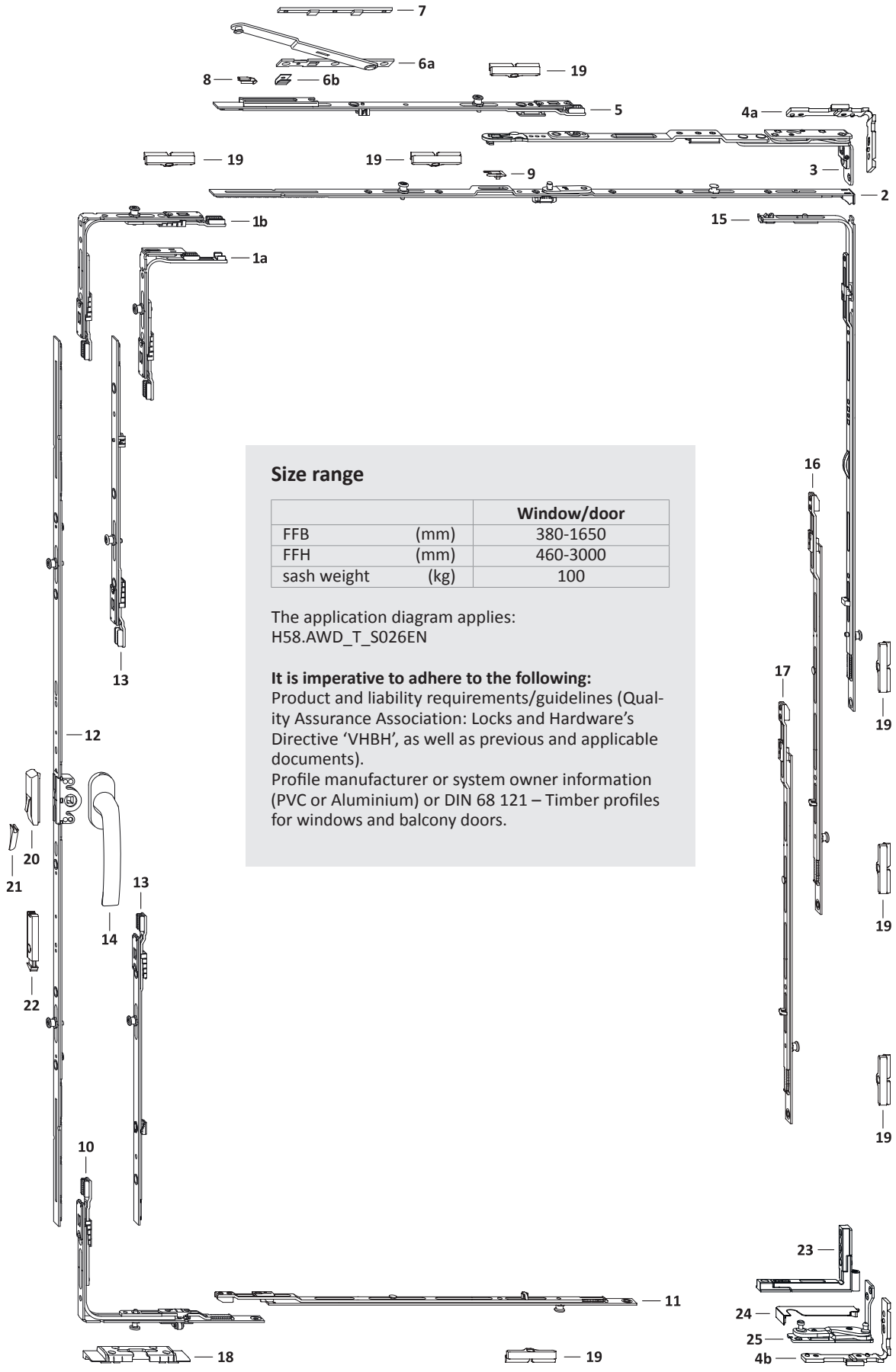


Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	460-3000
sash weight	(kg)	100

The application diagram applies:
H58.AWD_T_S026EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	460-3000
sash weight	(kg)	100

The application diagram applies:
H58.AWD_T_S026EN

It is imperative to adhere to the following:
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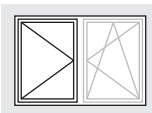
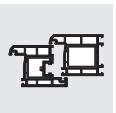
List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
						In the main sash	38	39	40
26	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	481–1650					1
27	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851–1050					2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					2
28	stay sash part DF AX	TSSV3020- ...	1	380–1650					
29	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650					
30a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	380–1650	460– 800		1		
30b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	380–1650	801–3000		1		
31a	sec.sash gear 16 sz 30	TGKS0010- ...	1		460– 600	230– 300			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300– 400			
31b	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...	1		801–1200	400– 600			
	sec.sash gear 16 AF sz 120 1SB	TGMS4050- ...			1201–1600	600– 800			
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000			
	sec.sash gear 16 AF sz 200 2SB	TGMS4080- ...			2001–3000	1000–1500			
32	locking bolt AF VSO RSA 11	TESC2030- ...	1	380– 480	460–3000			1	
33	striker plate A0767	TRSA0010- ...	1	380– 480	460–3000				
34	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
35	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800				
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000				
36	sash part MV	Ref. PDB, ZFMV01	1		801–1600				
	sash part MV	Ref. PDB, ZFMV01	2		1601–2400				
	sash part MV	Ref. PDB, ZFMV01	3		2401–3000				
37	frame part MV	Ref. PDB, ZRZM01	1		801–1600				
	frame part MV	Ref. PDB, ZRZM01	2		1601–2400				
	frame part MV	Ref. PDB, ZRZM01	3		2401–3000				
38	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
39	striker V	Ref. PDB, FRZV02							
40	striker plate S 56	Ref. PDB, TRSM							
on request									
41	striker snapper AF A0767	TRST0100- ...	1		1601–3000				

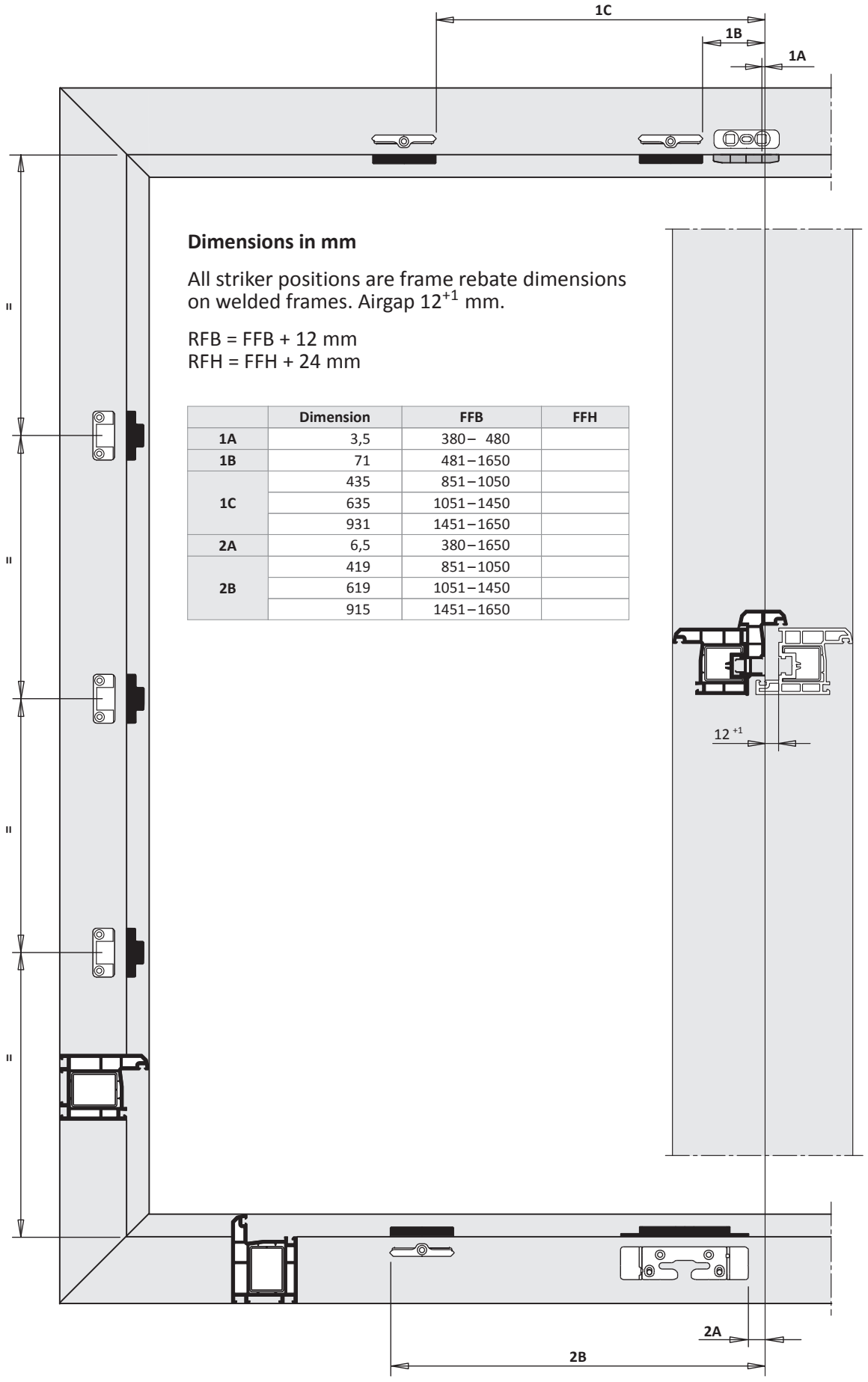
Hinge side turning points				
Pos.	Description	Part number		required as per sash weight
		surface TS	RAL7037	100 kg
42	stay arm AX DF	Ref. PDB, TSAV46		1
43	corner hinge AX	Ref. PDB, TBEB41		1
44	cover cap AX EL	Ref. PDB, TKEL41		1
45	bottom hinge AX	Ref. PDB, TBEV41		1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							18	19
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	380– 480				
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	380– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	380– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	460– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	460– 900			
10	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	380–1650			1	
11	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
12	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		
13	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
14	handle Globe	Ref.access. ZHGS	1		460–3000			
15	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
18	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
19	striker plate S 56	Ref. PDB, TRSM						
on request								
20	mishandling device	TFBS0010- ...	1		601–3000			
21	pressure piece	Ref. PDB, TFFD	1		601–3000			
22	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points				
Pos.	Description	Part number		required as per sash weight
		surface TS	RAL7037	100 kg
23	corner hinge AX	Ref. PDB, TBEB41		1
24	cover cap AX EL	Ref. PDB, TKEL41		1
25	bottom hinge AX	Ref. PDB, TBEV41		1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+

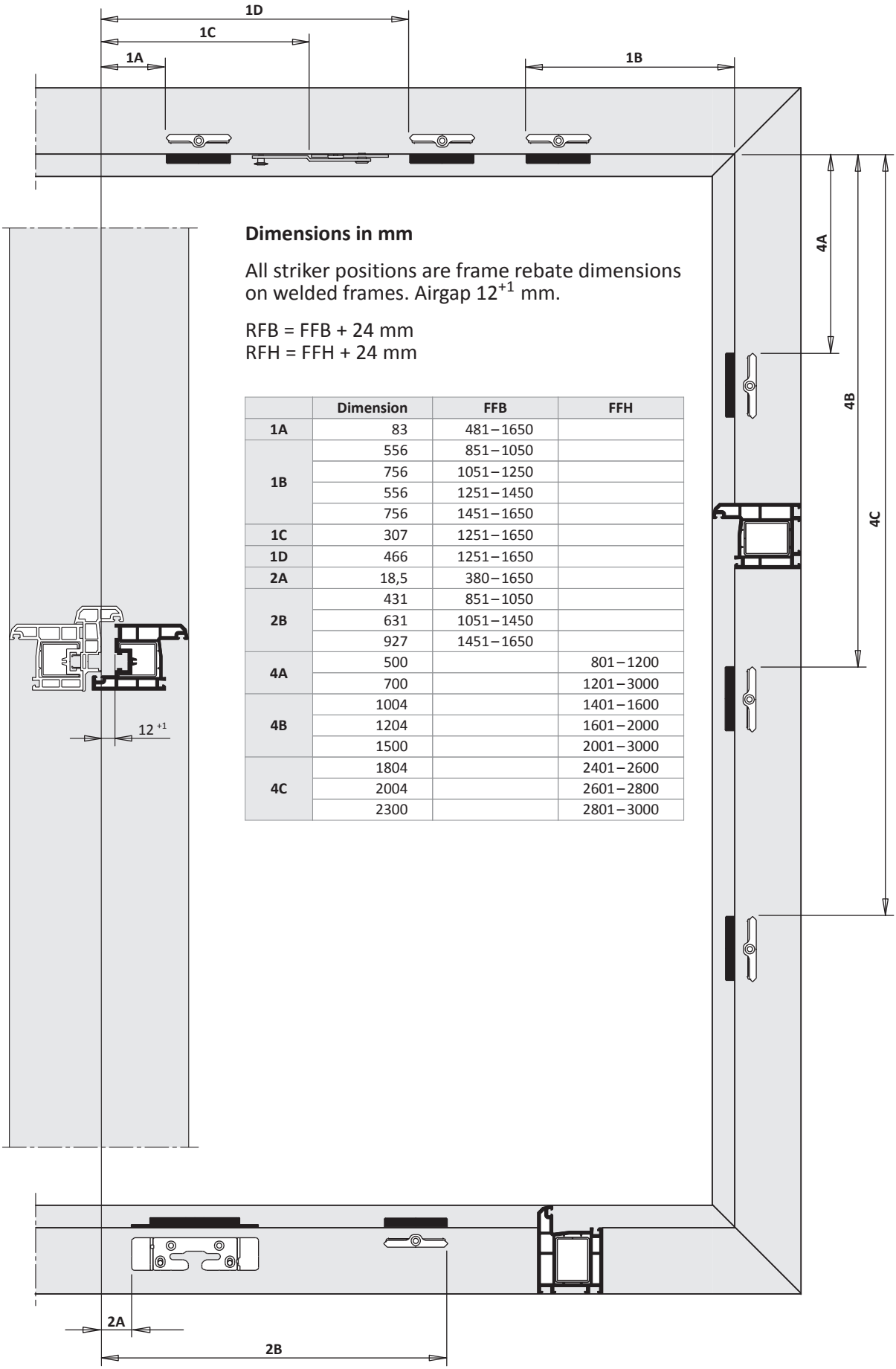


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	380– 480	
1B	71	481–1650	
1C	435	851–1050	
	635	1051–1450	
	931	1451–1650	
2A	6,5	380–1650	
2B	419	851–1050	
	619	1051–1450	
	915	1451–1650	



Dimensions in mm

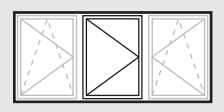
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	380–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



GS

3-sash Centre sash second opening turn

PVC

basic security

centre handle pos. (variable)

Hinge side axxent 24+

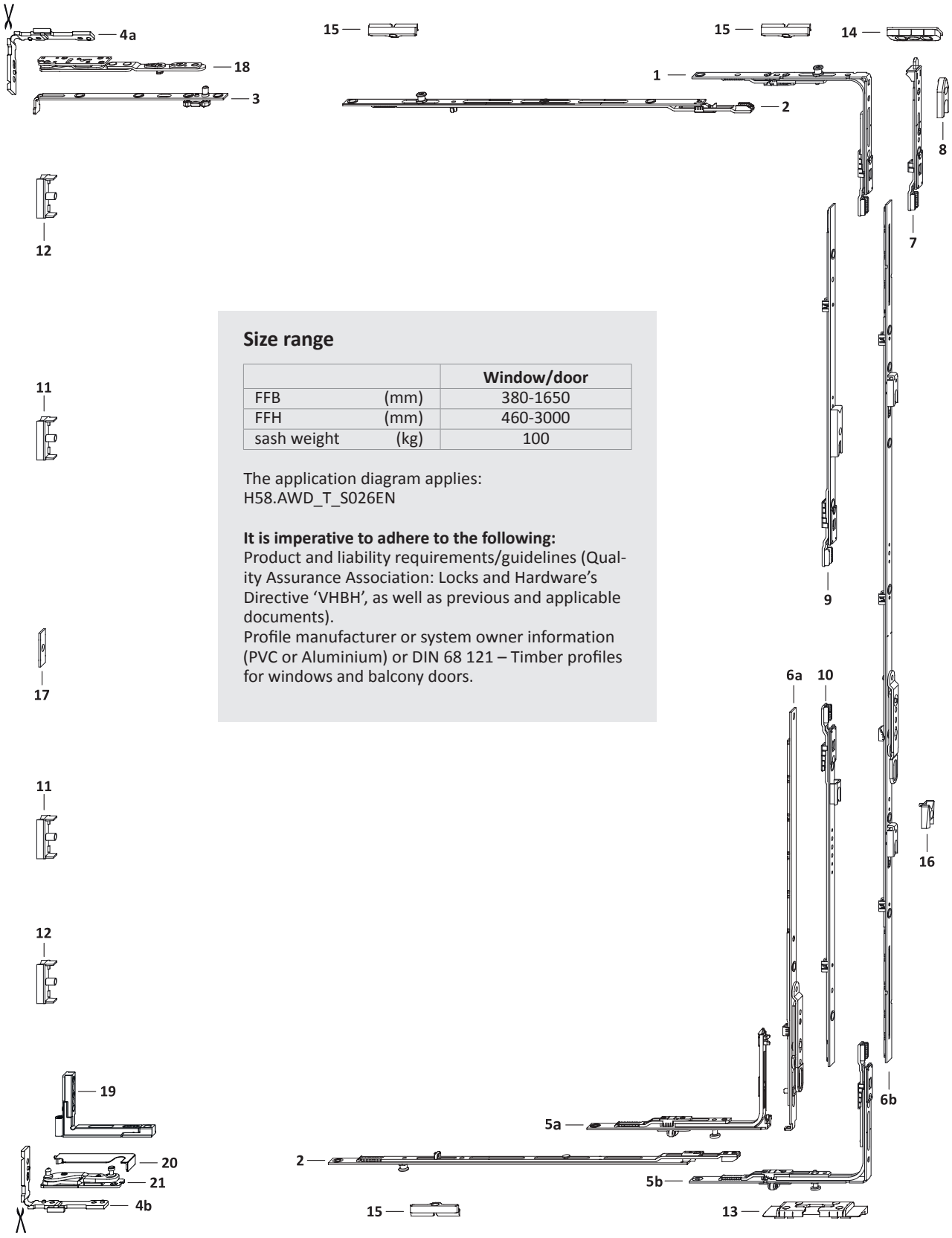
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear

hardware layout

3-sash Centre sash second opening turn
PVC GM Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	460-3000
sash weight	(kg)	100

The application diagram applies:
H58.AWD_T_S026EN

It is imperative to adhere to the following:
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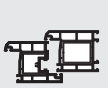
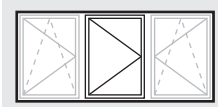




List of fittings

3-sash Centre sash second opening turn
PVC GM Hinge side axxent 24+

TITAN AF

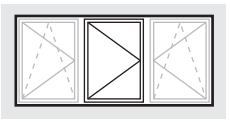
GS

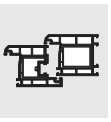
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							13	14	15
1	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	481 – 1650					1
2	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851 – 1050					2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450					2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451 – 1650					2
3	stay sash part DF AX	TSSV3020- ...	1	380 – 1650					
4	crt. accessories AX	Ref. PDB, TMZV41	1	380 – 1650					
5a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	380 – 1650	460 – 800		1		
5b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	380 – 1650	801 – 3000		1		
6a	sec.sash gear 16 sz 30	TGKS0010- ...	1		460 – 600	230 – 300			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601 – 800	300 – 400			
6b	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...	1		801 – 1200	400 – 600			
	sec.sash gear 16 AF sz 120 1SB	TGMS4050- ...			1201 – 1600	600 – 800			
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601 – 2000	800 – 1000			
	sec.sash gear 16 AF sz 200 2SB	TGMS4080- ...			2001 – 3000	1000 – 1500			
7	locking bolt AF VSO RSA 11	TESC2030- ...	1	380 – 480	460 – 3000			1	
8	striker plate A0767	TRSA0010- ...	1	380 – 480	460 – 3000				
9	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401 – 2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801 – 3000				
10	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401 – 2800				
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801 – 3000				
11	striker plate 56 A2000	TRSB0030- ...	1		801 – 1200				
	striker plate 56 A2000	TRSB0030- ...			1201 – 1600				
	striker plate 56 A2000	TRSB0030- ...	2		1601 – 2000				
	striker plate 56 A2000	TRSB0030- ...			2001 – 3000				
12	striker plate 56 A2000	TRSB0030- ...	2		2401 – 3000				
13	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
14	striker V	Ref. PDB, FRZV02							
15	striker plate S 56	Ref. PDB, TRSM							
on request									
16	striker snapper AF A0767	TRST0100- ...	1		1601 – 3000				
17	stop 2,2mm	710937	1		601 – 3000				

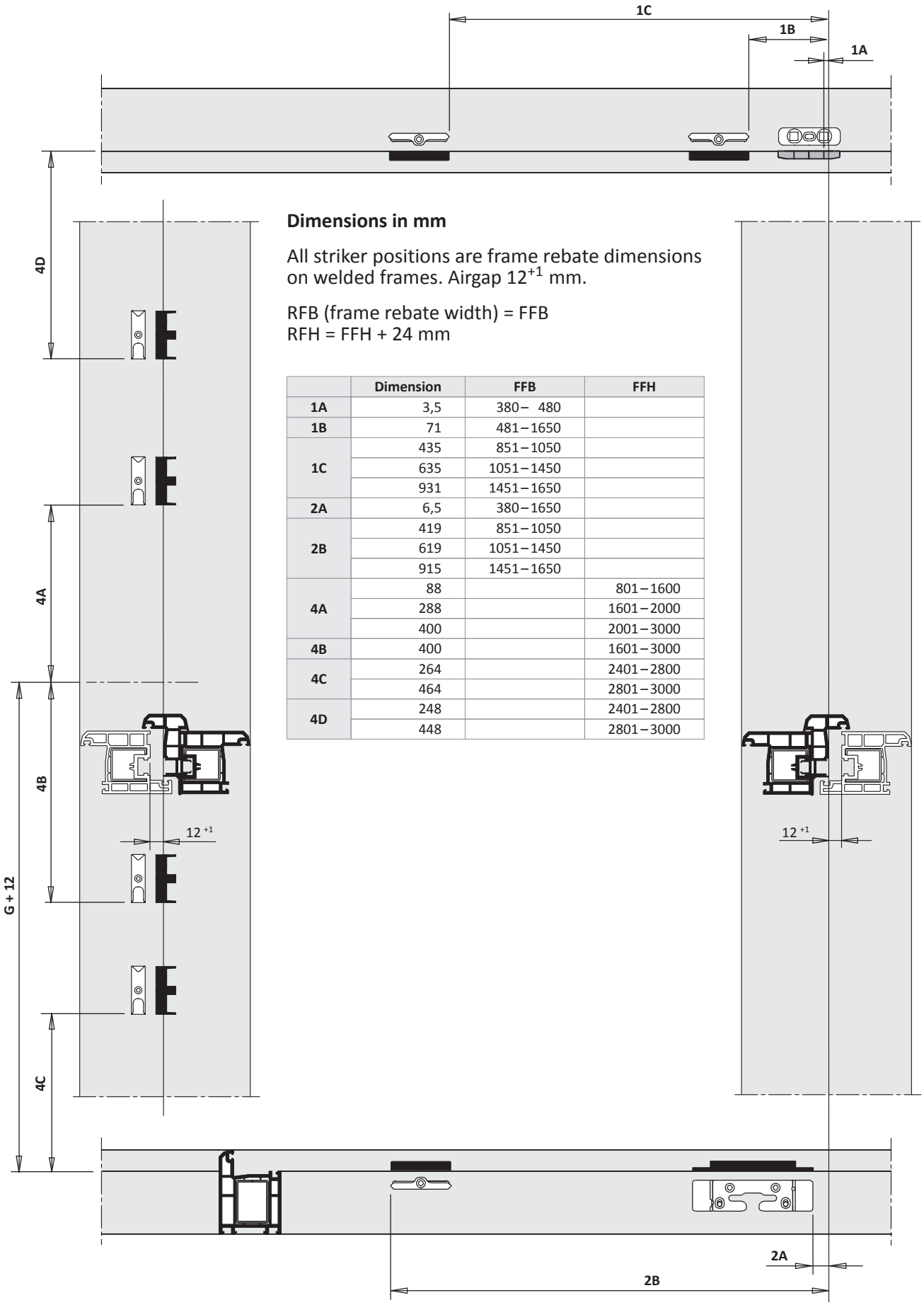
Hinge side turning points				
Pos.	Description	Part number		required as per sash weight
		surface TS	RAL7037	100 kg
18	stay arm AX DF/3	Ref. PDB, TSAV47		1
19	corner hinge AX	Ref. PDB, TBEB41		1
20	cover cap AX EL	Ref. PDB, TKEL41		1
21	bottom hinge AX DF/3	Ref. PDB, TBEV43		1

Frame dimensions

3-sash Centre sash second opening turn
PVC GM Hinge side axxent 24+







Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB (frame rebate width) = FFB
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	380– 480	
1B	71	481–1650	
1C	435	851–1050	
	635	1051–1450	
	931	1451–1650	
2A	6,5	380–1650	
2B	419	851–1050	
	619	1051–1450	
	915	1451–1650	
4A	88		801–1600
	288		1601–2000
	400		2001–3000
4B	400		1601–3000
4C	264		2401–2800
	464		2801–3000
4D	248		2401–2800
	448		2801–3000

TITAN AF

Installation instructions

GS

1-sash square tilt before turn (TBT)

PVC

basic security

centre handle pos. (variable)

Hinge side axxent 24+

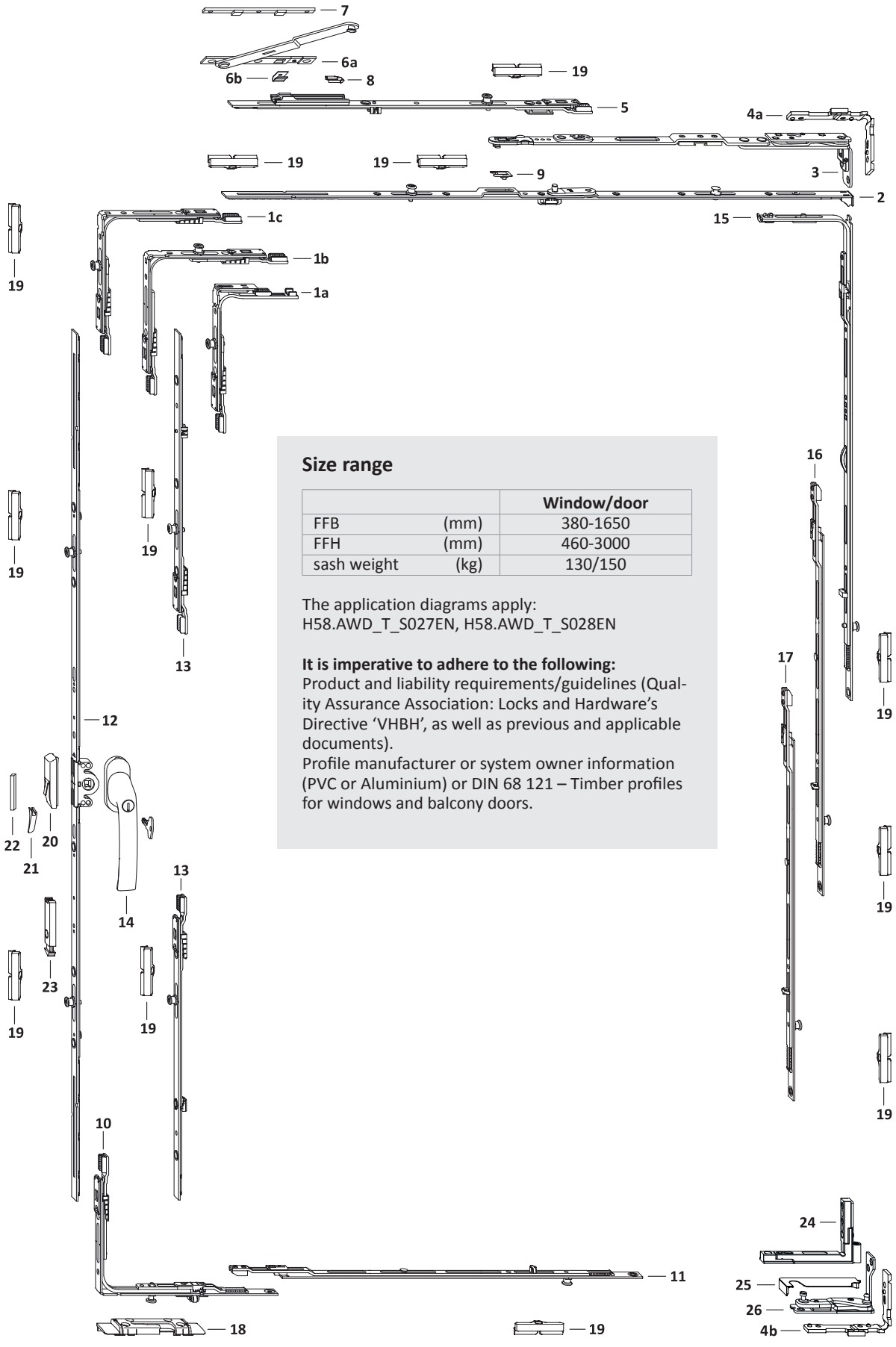
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS

hardware layout

1-sash square tilt before turn (TBT)
PVC GM Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

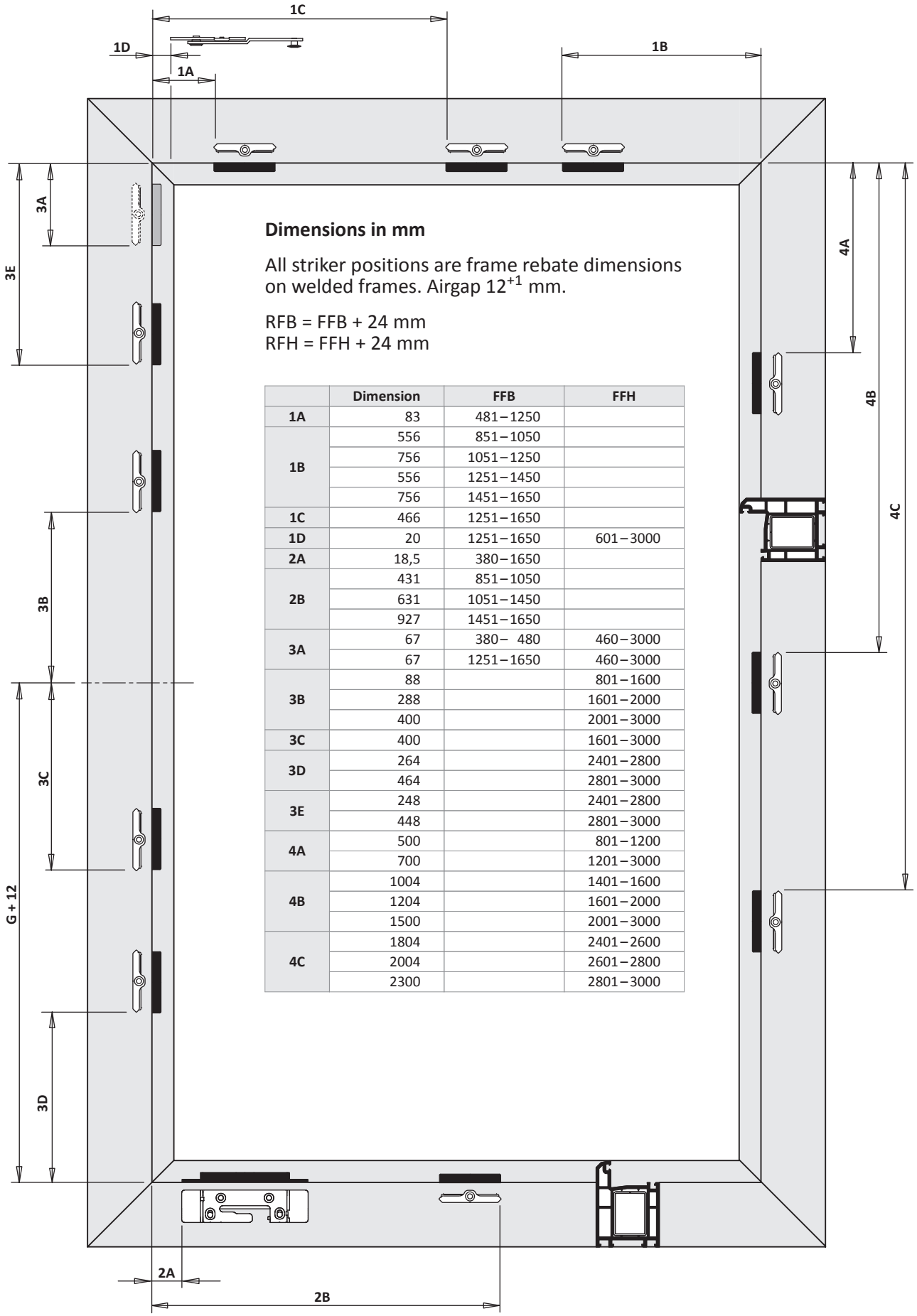
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							18	19
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	380– 480				1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1250				1
1c	corn.drive VSO 1RS	TEUL4010- ...	1	1251–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	380– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX TBT sz 1	Ref. PDB, TSAV51	1	380– 680				
	stay arm AX TBT sz 2+3	Ref. PDB, TSAV52		681– 850				
	stay arm AX TBT sz 4	Ref. PDB, TSAV54		851–1050				
	stay arm AX TBT sz 5	Ref. PDB, TSAV55		1051–1250				
	stay arm AX TBT sz 4	Ref. PDB, TSAV54		1251–1450				
	stay arm AX TBT sz 5	Ref. PDB, TSAV55		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650				
5	linkage add. stay AF TBT RS	TZOT1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	460– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	460– 900			
10	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	380–1650			1	
11	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
12	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		2
13	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
14	handle Globe TBT lockable	Ref.access. ZHGT	1		460–3000			
15	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
16	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
18	tilt lock bear. S-ES FH TBT	Ref. PDB, FRKB						
19	striker plate S 56	Ref. PDB, TRSM						
on request								
20	mishandling device	TFBS0010- ...	1					
21	pressure piece	Ref. PDB, TFFD	1					
22	stop	Ref. PDB, FRZF01	1					
23	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
24	corner hinge AX	Ref. PDB, TBEB41		1	1
25	cover cap AX EL	Ref. PDB, TKEL41		1	1
26	bottom hinge AX	Ref. PDB, TBEV41		1	1

Frame dimensions

1-sash square tilt before turn (TBT)
PVC GM Hinge side axxent 24+



Dimensions in mm

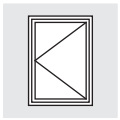
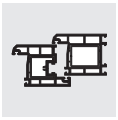
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1250	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	466	1251–1650	
1D	20	1251–1650	601–3000
2A	18,5	380–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	380– 480	460–3000
	67	1251–1650	460–3000
3B	88		801–1600
	288		1601–2000
	400		2001–3000
3C	400		1601–3000
3D	264		2401–2800
	464		2801–3000
3E	248		2401–2800
	448		2801–3000
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



GS

1-sash square turn

PVC

basic security

centre handle pos. (variable)

Hinge side axxent 24+

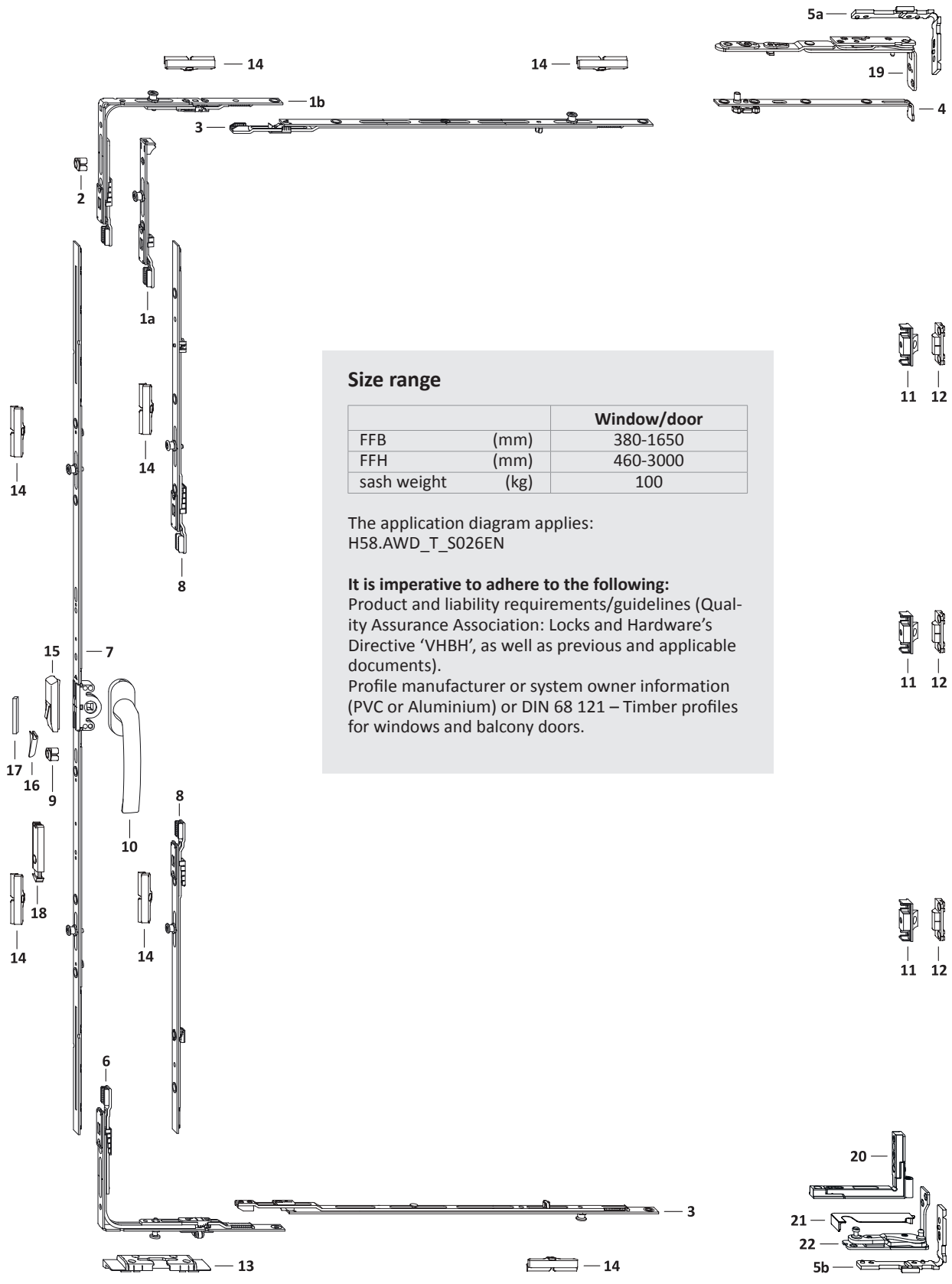
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear

hardware layout

1-sash square turn
PVC GM Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	460-3000
sash weight	(kg)	100

The application diagram applies:
H58.AWD_T_S026EN

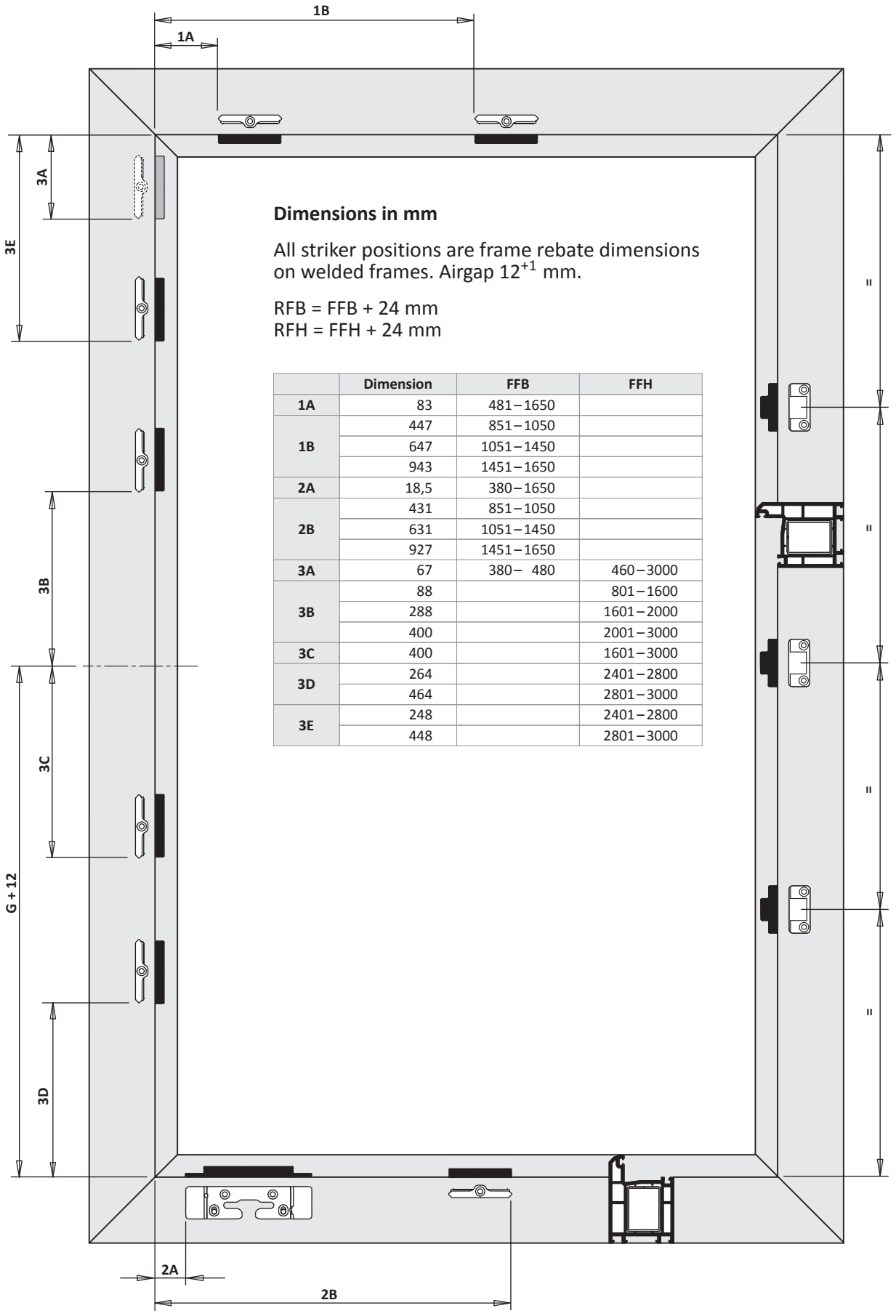
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							13	14
1a	locking bolt AF VS 180° 1RS	TESC2020- ...	1	380– 480				1
1b	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	481–1650				1
2	travel restrictor	TFHB0010- ...	1	380–1250	460– 600			
3	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851–1050				2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				2
4	stay sash part DF AX	TSSV3020- ...	1	380–1650				
5	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650				
6	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	380–1650			1	
7	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		2
8	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
9	travel restrictor	TFHB0010- ...	1		460–3000			
10	handle Globe	Ref.access. ZHGS	1		460–3000			
11	sash part MV	Ref. PDB, ZFMV01	1		801–1600			
	sash part MV	Ref. PDB, ZFMV01	2		1601–2400			
	sash part MV	Ref. PDB, ZFMV01	3		2401–3000			
12	frame part MV	Ref. PDB, ZRZM01	1		801–1600			
	frame part MV	Ref. PDB, ZRZM01	2		1601–2400			
	frame part MV	Ref. PDB, ZRZM01	3		2401–3000			
13	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
14	striker plate S 56	Ref. PDB, TRSM						
on request								
15	mishandling device	TFBS0010- ...	1					
16	pressure piece	Ref. PDB, TFFD	1					
17	stop	Ref. PDB, FRZF01	1					
18	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points				
Pos.	Description	Part number		required as per sash weight
		surface TS	RAL7037	100 kg
19	stay arm AX DF	Ref. PDB, TSAV46		1
20	corner hinge AX	Ref. PDB, TBEB41		1
21	cover cap AX EL	Ref. PDB, TKEL41		1
22	bottom hinge AX	Ref. PDB, TBEV41		1

Frame dimensions

1-sash square turn
PVC GM Hinge side axxent 24+



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	447	851–1050	
	647	1051–1450	
	943	1451–1650	
2A	18,5	380–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	380– 480	460–3000
3B	88		801–1600
	288		1601–2000
	400		2001–3000
3C	400		1601–3000
3D	264		2401–2800
	464		2801–3000
3E	248		2401–2800
	448		2801–3000

TITAN AF

Installation instructions

GS

1-sash square tilt-turn

PVC

basic security

centre handle pos. (variable)

Hinge side axxent 24+

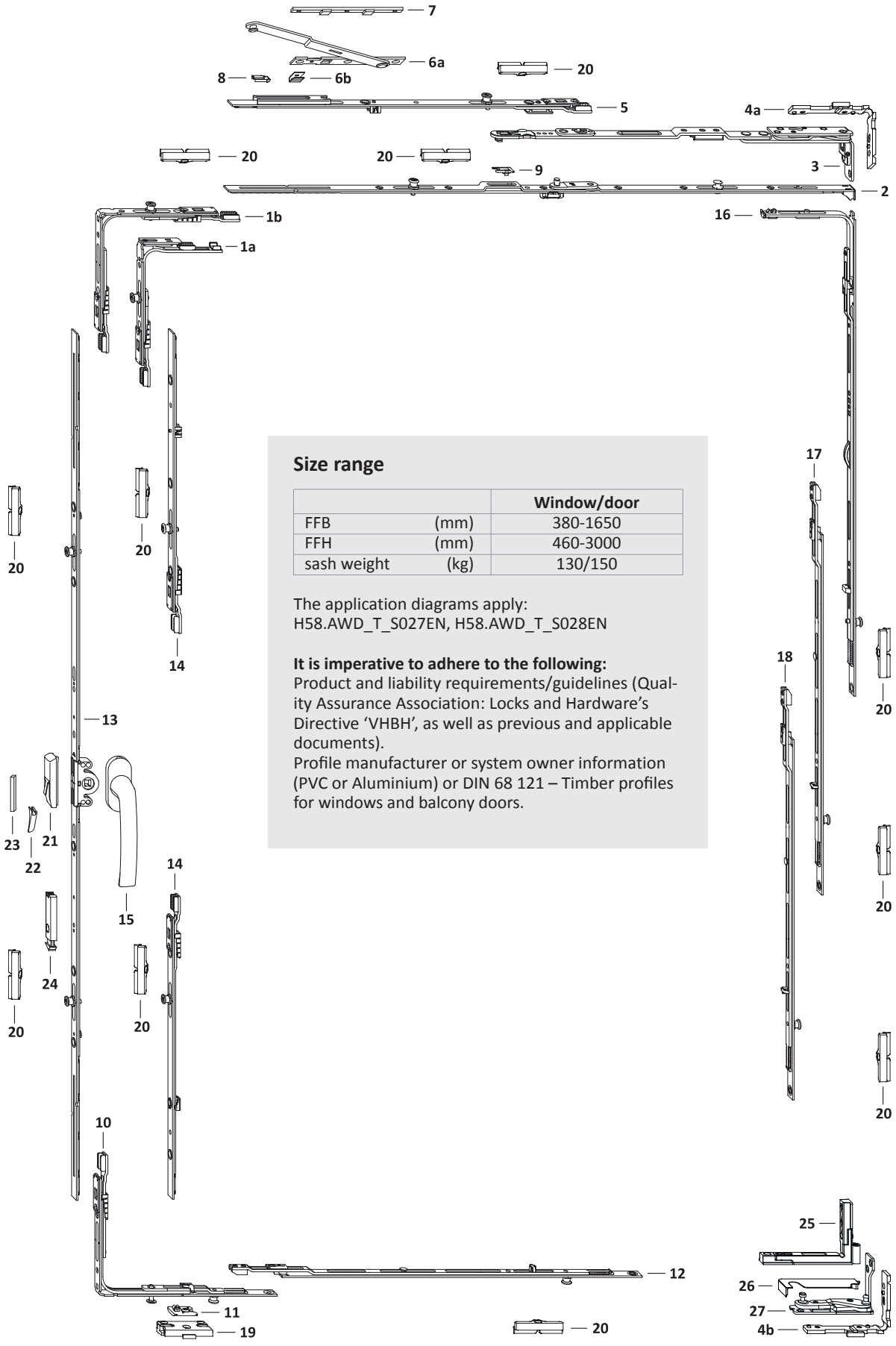
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS

hardware layout

1-sash square tilt-turn
PVC GM Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

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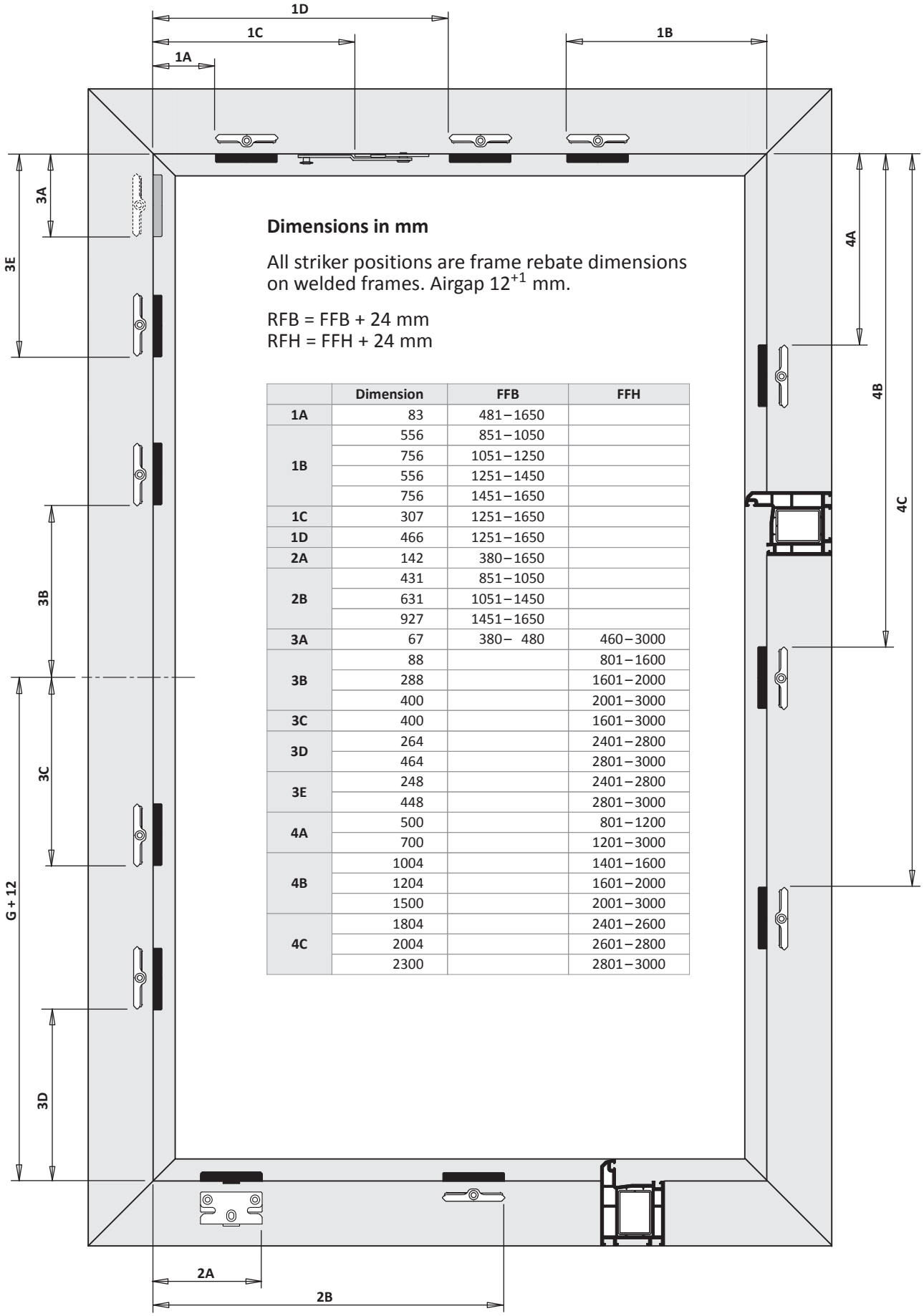
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							19	20
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	380– 480				1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	380– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	380– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	460– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	460– 900			
10	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	380–1650			1	
11	run up block AF 13 mm 13	TFFH0080- ...	1	380–1650				
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
13	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		2
14	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
15	handle Globe	Ref.access. ZHGS	1		460–3000			
16	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
19	striker plate S-RS	Ref. PDB, TRSK						
20	striker plate S 56	Ref. PDB, TRSM						
on request								
21	mishandling device	TFBS0010- ...	1					
22	pressure piece	Ref. PDB, TFFD	1					
23	stop	Ref. PDB, FRZF01	1					
24	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
25	corner hinge AX	Ref. PDB, TBEB41		1	1
26	cover cap AX EL	Ref. PDB, TKEL41		1	1
27	bottom hinge AX	Ref. PDB, TBEV41		1	1

Frame dimensions

1-sash square tilt-turn
PVC GM Hinge side axxent 24+



Dimensions in mm

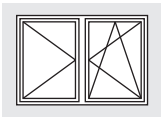
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

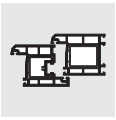
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	380–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	380– 480	460–3000
3B	88		801–1600
	288		1601–2000
	400		2001–3000
3C	400		1601–3000
3D	264		2401–2800
	464		2801–3000
3E	248		2401–2800
	448		2801–3000
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

centre handle pos. (variable)

Hinge side axxent 24+

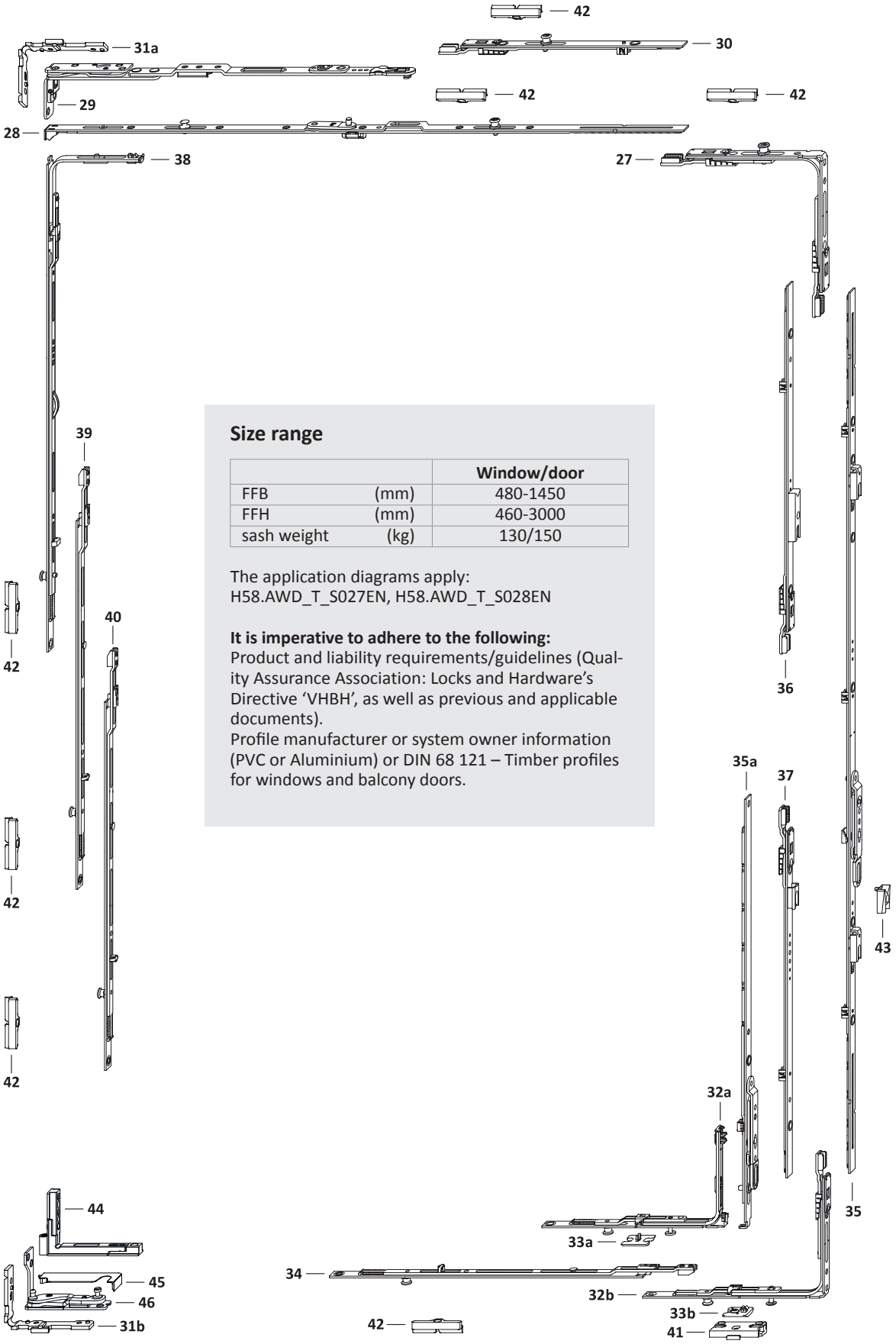
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800; secondary sash with DK-stay
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	480-1450
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
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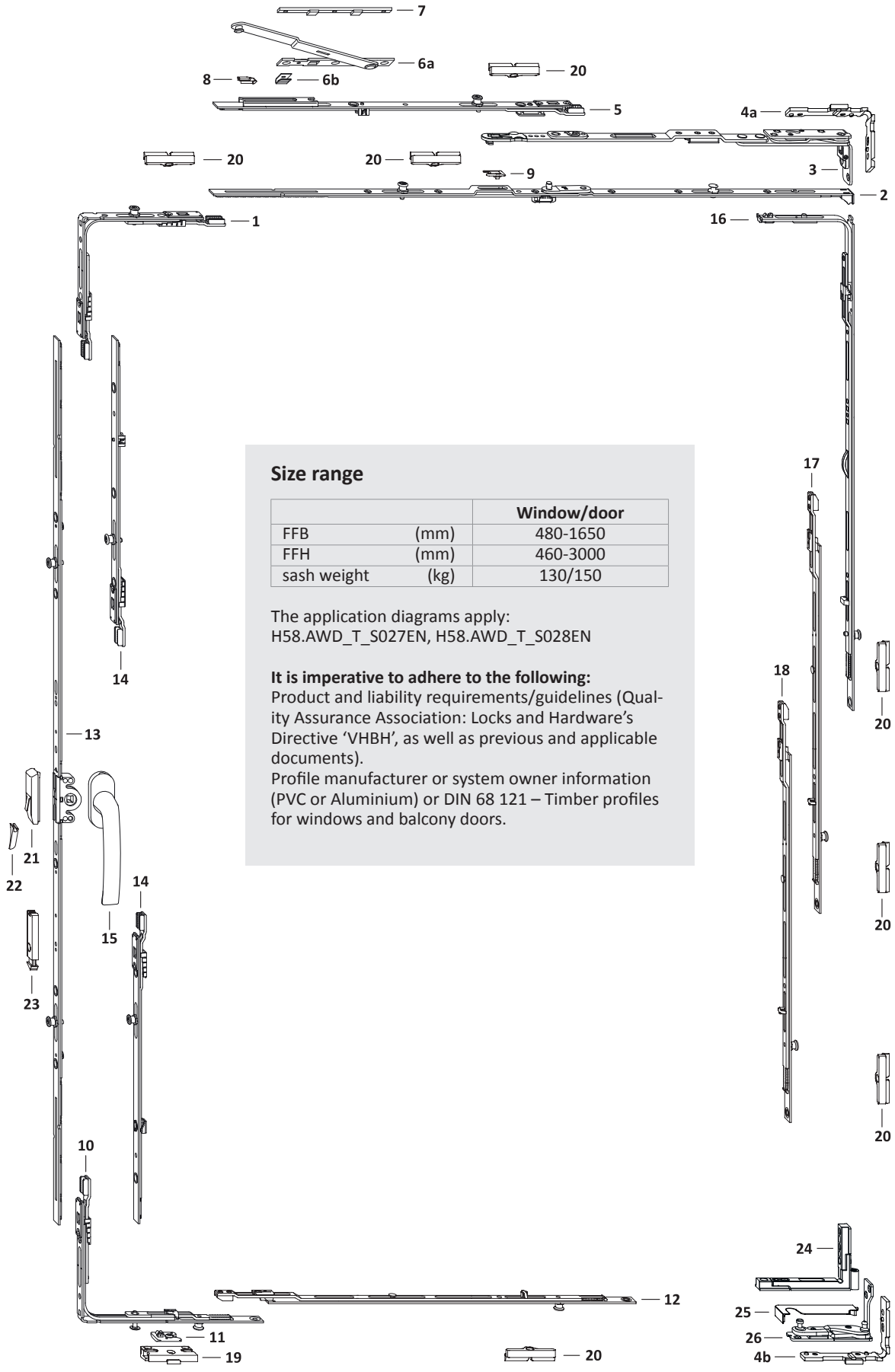

Size range

		Window/door
FFB	(mm)	480-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

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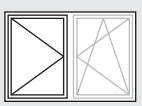
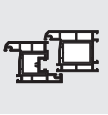
List of fittings slave sash

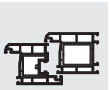
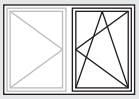
2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	41	42
27	corn.drive VSO 1RS	TEUL4010- ...	1	480–1450				1
28	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1450				1
29	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1450				
30	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
31	crt. accessories AX	Ref. PDB, TMZV41	1	1251–1450				
32a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480–1450	460– 800		1	
32b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480–1450	801–3000		1	
33a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480–1450	460– 800			
33b	run up block AF 13 mm 13	TFFH0080- ...	1	480–1450	801–3000			
34	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
35a	sec.sash gear 16 sz 30	TGKS0010- ...	1		460– 600	230– 300		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300– 400		
35b	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...	1		801–1200	400– 600		
	sec.sash gear 16 AF sz 120 1SB	TGMS4050- ...			1201–1600	600– 800		
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000		
	sec.sash gear 16 AF sz 200 2SB	TGMS4080- ...			2001–3000	1000–1500		
36	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
37	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800			
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000			
38	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
39	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
40	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
41	striker plate S-RS	Ref. PDB, TRSK						
42	striker plate S 56	Ref. PDB, TRSM						
on request								
43	striker snapper AF A0767	TRST0100- ...	1		1601–3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
44	corner hinge AX	Ref. PDB, TBEB41		1	1
45	cover cap AX EL	Ref. PDB, TKEL41		1	1
46	bottom hinge AX	Ref. PDB, TBEV41		1	1

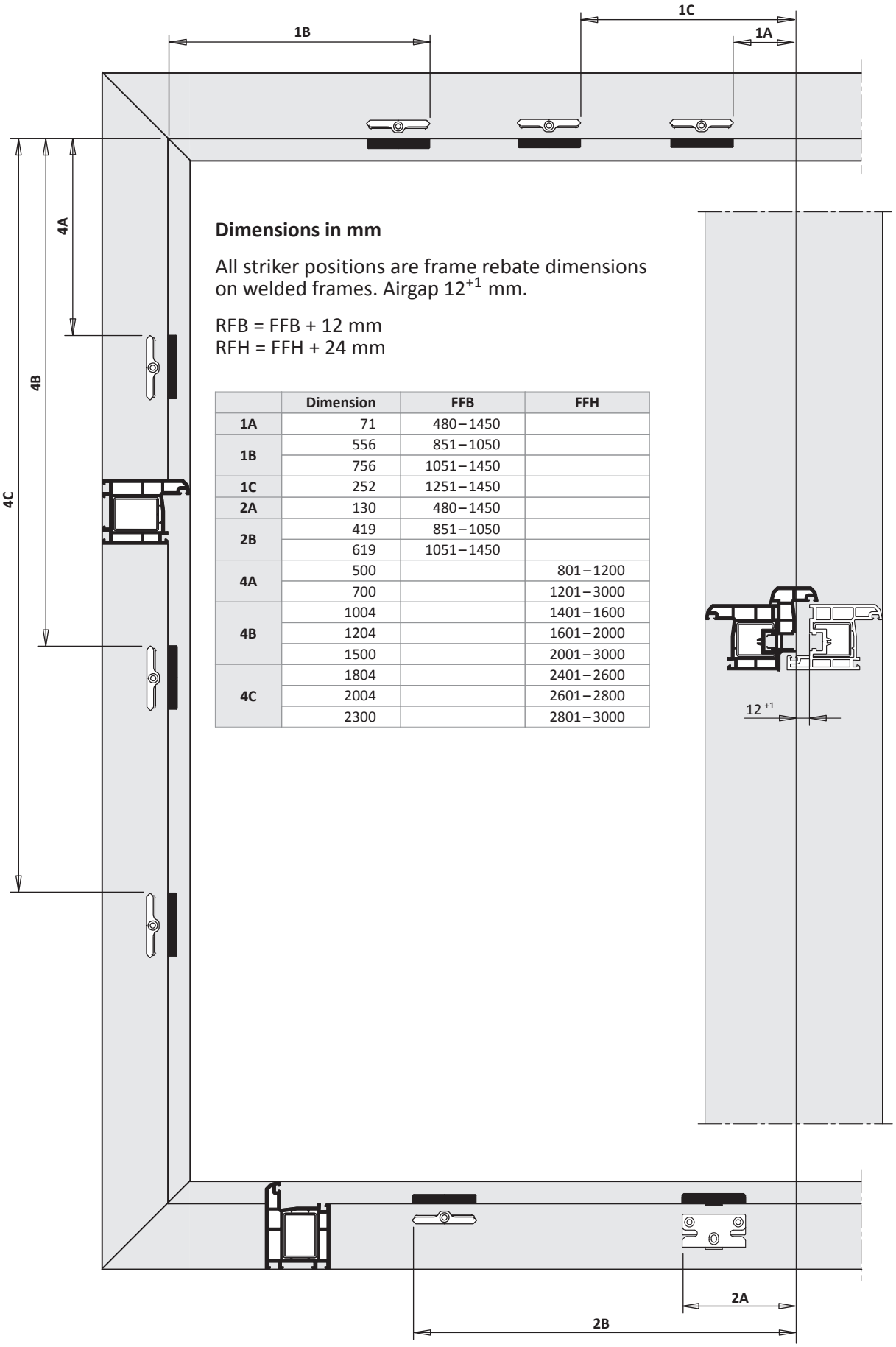



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							19	20
1	corn.drive VSO 1RS	TEUL4010- ...	1	480–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	480–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	460– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	460– 900			
10	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480–1650			1	
11	run up block AF 13 mm 13	TFFH0080- ...	1	480–1650				
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
13	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		
14	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
15	handle Globe	Ref.access. ZHGS	1		460–3000			
16	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
19	striker plate S-RS	Ref. PDB, TRSK						
20	striker plate S 56	Ref. PDB, TRSM						
on request								
21	mishandling device	TFBS0010- ...	1		601–3000			
22	pressure piece	Ref. PDB, TFFD	1		601–3000			
23	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
24	corner hinge AX	Ref. PDB, TBEB41		1	1
25	cover cap AX EL	Ref. PDB, TKEL41		1	1
26	bottom hinge AX	Ref. PDB, TBEV41		1	1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+

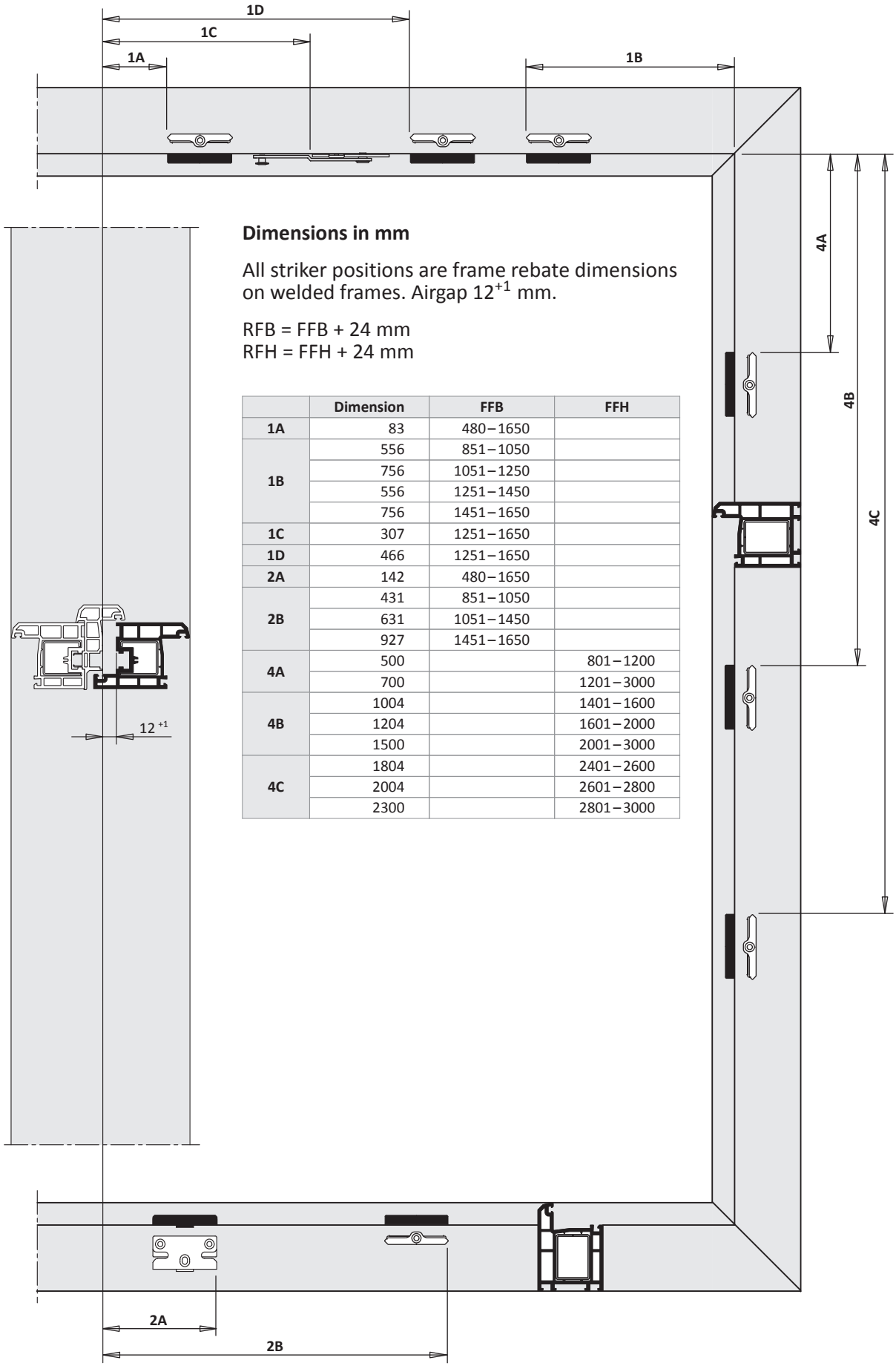


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	480–1450	
1B	556	851–1050	
	756	1051–1450	
1C	252	1251–1450	
2A	130	480–1450	
2B	419	851–1050	
	619	1051–1450	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000



Dimensions in mm

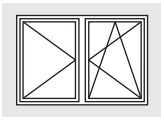
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	480–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

centre handle pos. (variable)

Hinge side axxent 24+

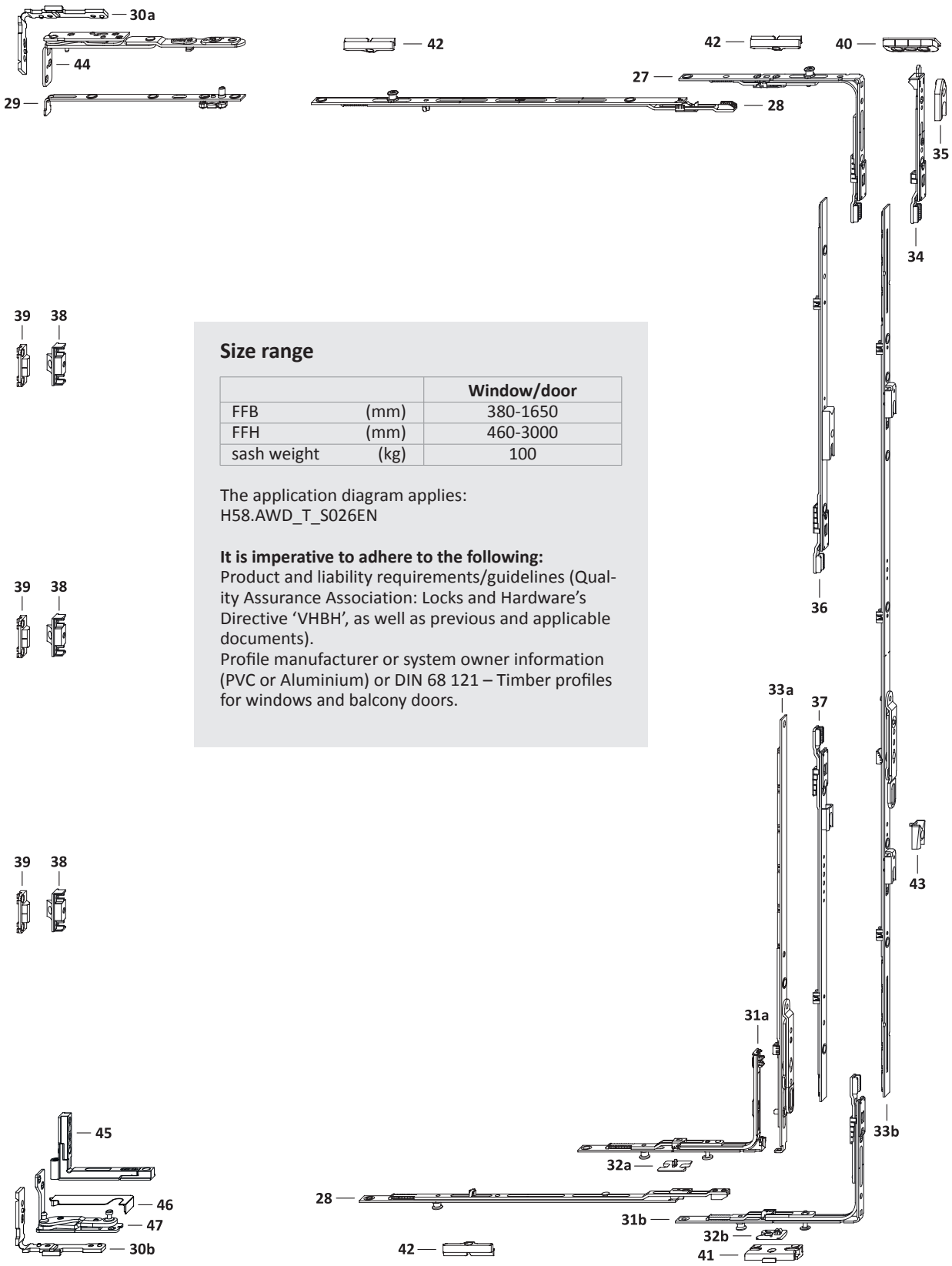
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	460-3000
sash weight	(kg)	100

The application diagram applies:
H58.AWD_T_S026EN

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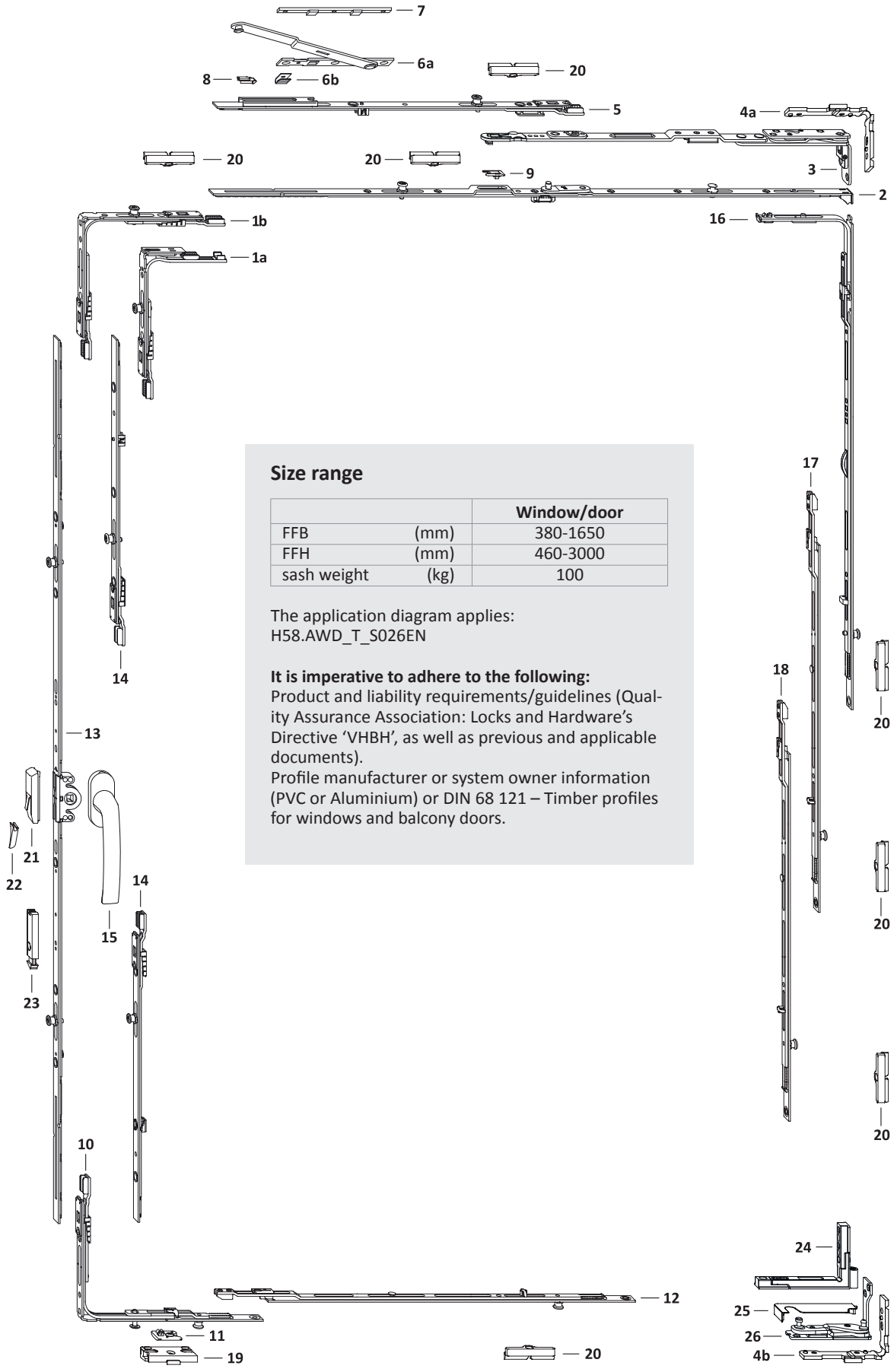

Size range

		Window/door
FFB	(mm)	380-1650
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sash weight	(kg)	100

The application diagram applies:
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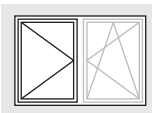
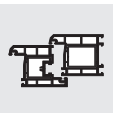
List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
						In the main sash	40	41	42
27	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	481–1650					1
28	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851–1050					2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					2
29	stay sash part DF AX	TSSV3020- ...	1	380–1650					
30	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650					
31a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	380–1650	460– 800			1	
31b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	380–1650	801–3000			1	
32a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	380–1650	460– 800				
32b	run up block AF 13 mm 13	TFFH0080- ...	1	380–1650	801–3000				
33a	sec.sash gear 16 sz 30	TGKS0010- ...	1		460– 600	230– 300			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300– 400			
33b	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...	1		801–1200	400– 600			
	sec.sash gear 16 AF sz 120 1SB	TGMS4050- ...			1201–1600	600– 800			
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000			
	sec.sash gear 16 AF sz 200 2SB	TGMS4080- ...			2001–3000	1000–1500			
34	locking bolt AF VSO RSA 11	TESC2030- ...	1	380– 480	460–3000		1		
35	striker plate A0767	TRSA0010- ...	1	380– 480	460–3000				
36	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
37	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800				
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000				
38	sash part MV	Ref. PDB, ZFMV01	1		801–1600				
	sash part MV	Ref. PDB, ZFMV01	2		1601–2400				
	sash part MV	Ref. PDB, ZFMV01	3		2401–3000				
39	frame part MV	Ref. PDB, ZRZM01	1		801–1600				
	frame part MV	Ref. PDB, ZRZM01	2		1601–2400				
	frame part MV	Ref. PDB, ZRZM01	3		2401–3000				
40	striker V	Ref. PDB, FRZV02							
41	striker plate S-RS	Ref. PDB, TRSK							
42	striker plate S 56	Ref. PDB, TRSM							
on request									
43	striker snapper AF A0767	TRST0100- ...	1		1601–3000				

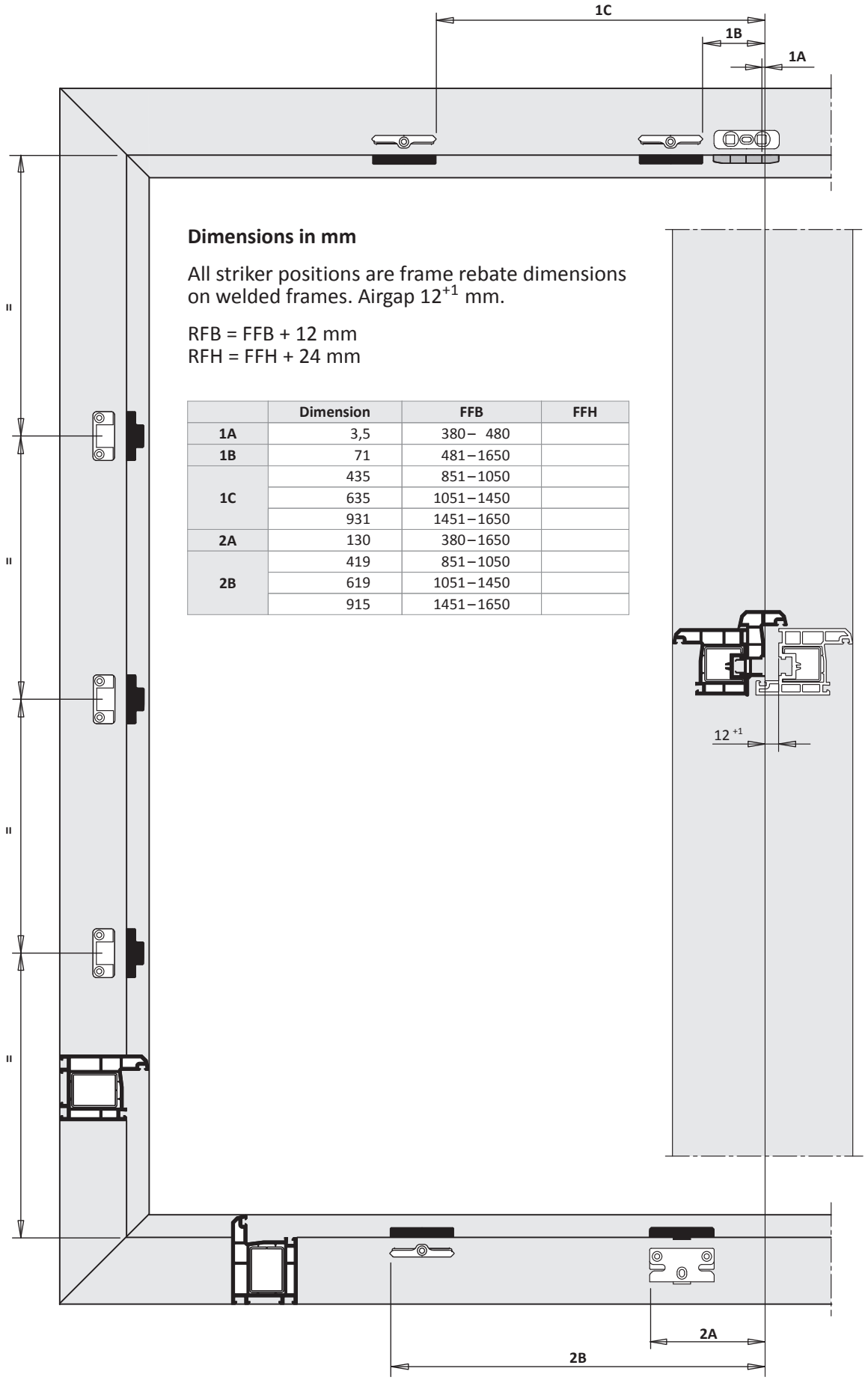
Hinge side turning points				
Pos.	Description	Part number		required as per sash weight
		surface TS	RAL7037	100 kg
44	stay arm AX DF	Ref. PDB, TSAV46		1
45	corner hinge AX	Ref. PDB, TBEB41		1
46	cover cap AX EL	Ref. PDB, TKEL41		1
47	bottom hinge AX	Ref. PDB, TBEV41		1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							19	20
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	380– 480				
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	380– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	380– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	460– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	460– 900			
10	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	380–1650			1	
11	run up block AF 13 mm 13	TFFH0080- ...	1	380–1650				
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
13	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		
14	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
15	handle Globe	Ref.access. ZHGS	1		460–3000			
16	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
17	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
19	striker plate S-RS	Ref. PDB, TRSK						
20	striker plate S 56	Ref. PDB, TRSM						
on request								
21	mishandling device	TFBS0010- ...	1		601–3000			
22	pressure piece	Ref. PDB, TFFD	1		601–3000			
23	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points				
Pos.	Description	Part number		required as per sash weight
		surface TS	RAL7037	100 kg
24	corner hinge AX	Ref. PDB, TBEB41		1
25	cover cap AX EL	Ref. PDB, TKEL41		1
26	bottom hinge AX	Ref. PDB, TBEV41		1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+

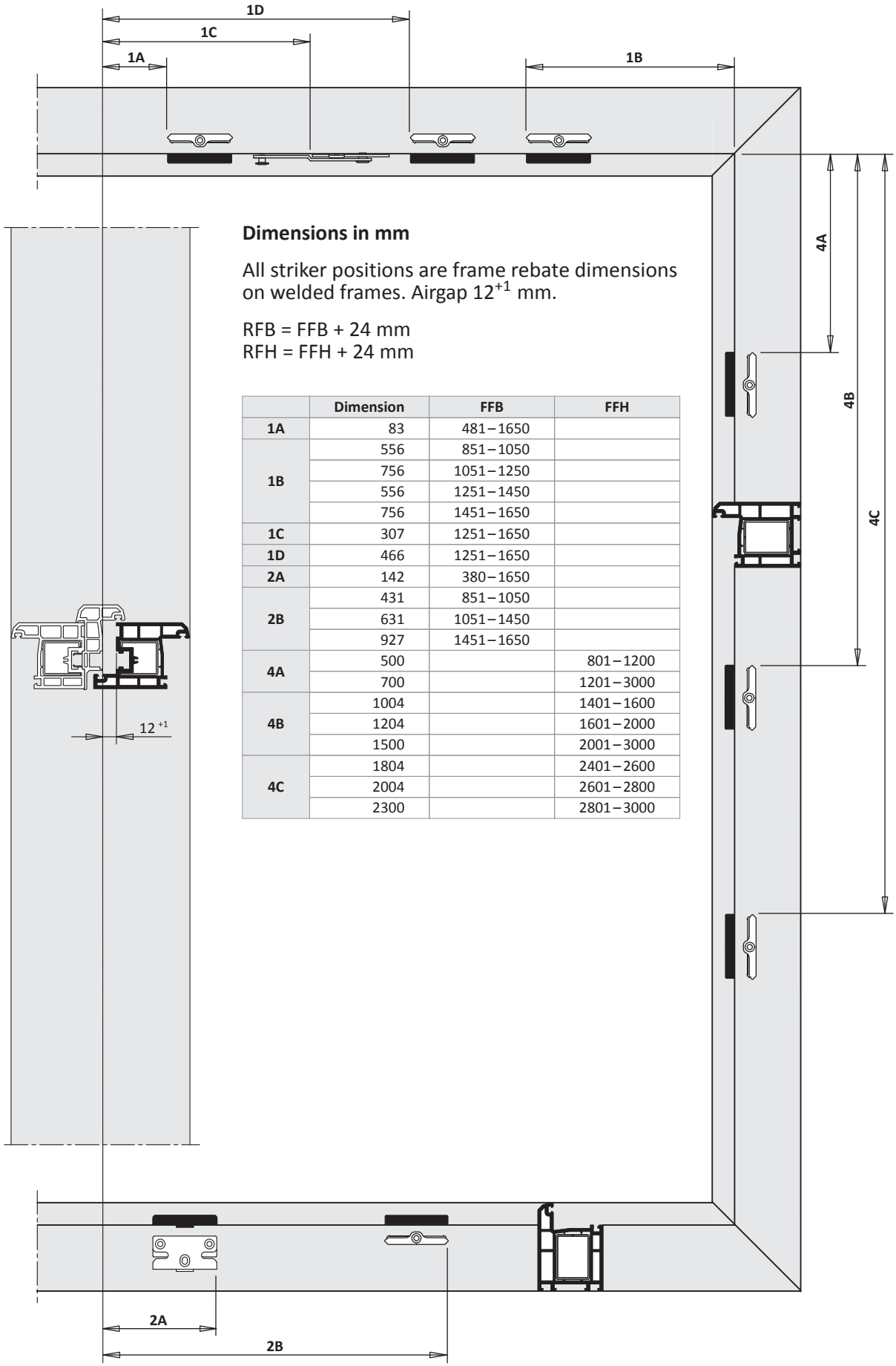


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	380– 480	
1B	71	481–1650	
1C	435	851–1050	
	635	1051–1450	
	931	1451–1650	
2A	130	380–1650	
2B	419	851–1050	
	619	1051–1450	
	915	1451–1650	



Dimensions in mm

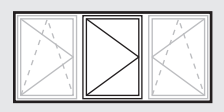
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	380–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4C	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



GS

3-sash Centre sash second opening turn

PVC

basic security

centre handle pos. (variable)

Hinge side axxent 24+

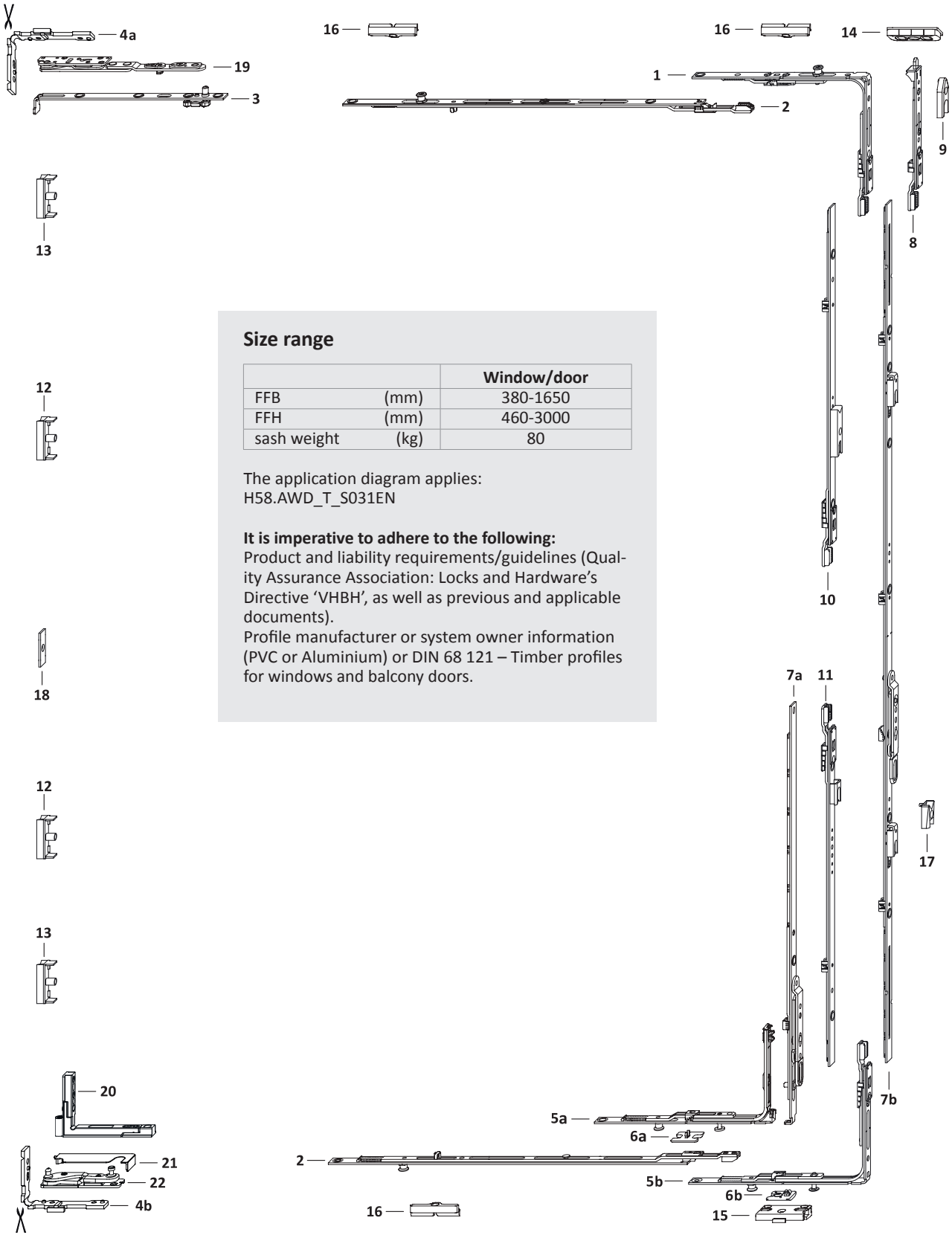
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear

hardware layout

3-sash Centre sash second opening turn
PVC GM Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	460-3000
sash weight	(kg)	80

The application diagram applies:
H58.AWD_T_S031EN

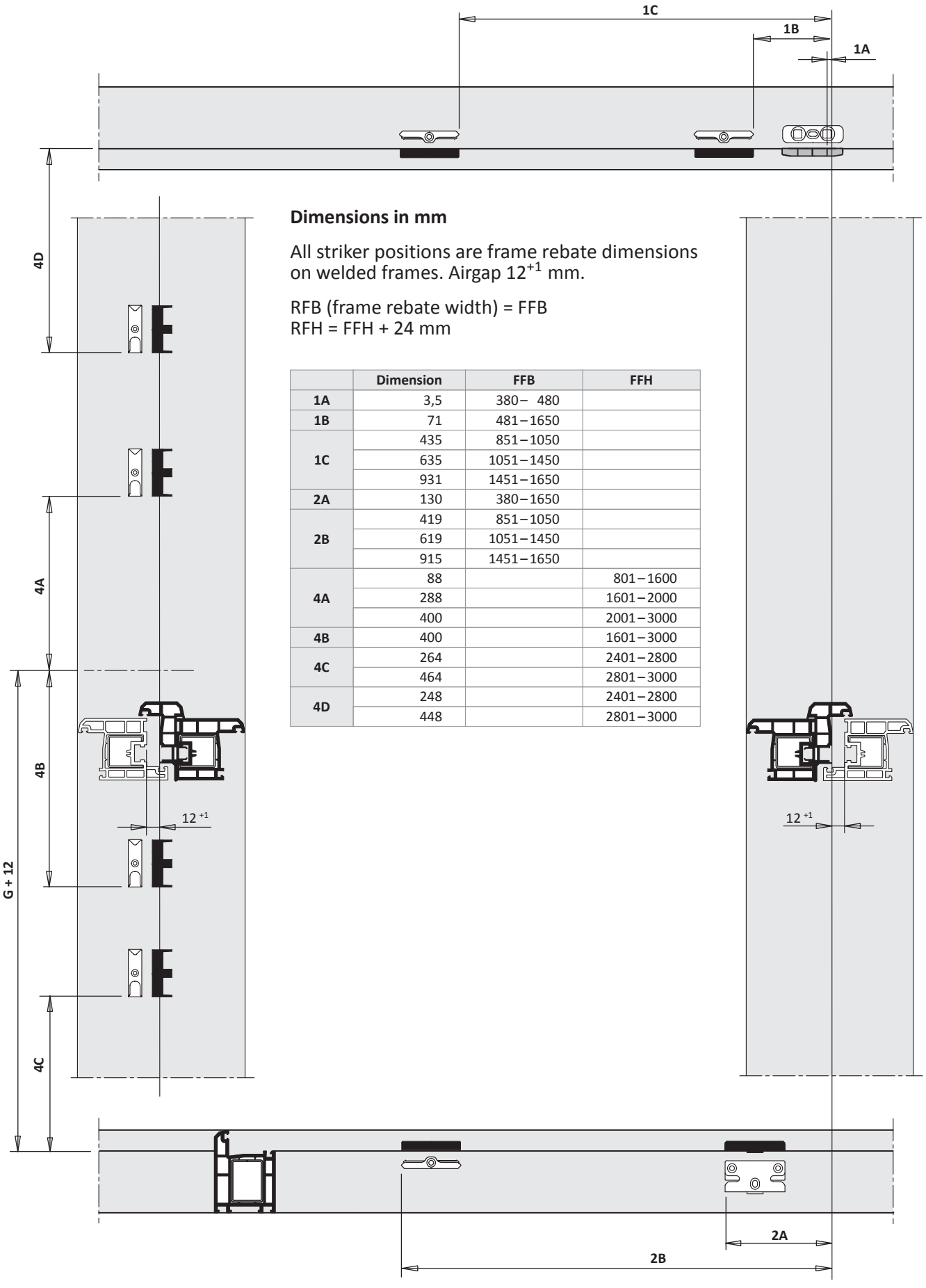
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							14	15	16
1	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	481–1650					1
2	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851–1050					2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					2
3	stay sash part DF AX	TSSV3020- ...	1	380–1650					
4	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650					
5a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	380–1650	460– 800			1	
5b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	380–1650	801–3000			1	
6a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	380–1650	460– 800				
6b	run up block AF 13 mm 13	TFFH0080- ...	1	380–1650	801–3000				
7a	sec.sash gear 16 sz 30	TGKS0010- ...	1		460– 600	230– 300			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300– 400			
7b	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...	1		801–1200	400– 600			
	sec.sash gear 16 AF sz 120 1SB	TGMS4050- ...			1201–1600	600– 800			
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000			
	sec.sash gear 16 AF sz 200 2SB	TGMS4080- ...			2001–3000	1000–1500			
8	locking bolt AF VSO RSA 11	TESC2030- ...	1	380– 480	460–3000		1		
9	striker plate A0767	TRSA0010- ...	1	380– 480	460–3000				
10	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
11	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800				
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000				
12	striker plate 56 A2000	TRSB0030- ...	1		801–1200				
	striker plate 56 A2000	TRSB0030- ...			1201–1600				
	striker plate 56 A2000	TRSB0030- ...	2		1601–2000				
	striker plate 56 A2000	TRSB0030- ...			2001–3000				
13	striker plate 56 A2000	TRSB0030- ...	2		2401–3000				
14	striker V	Ref. PDB, FRZV02							
15	striker plate S-RS	Ref. PDB, TRSK							
16	striker plate S 56	Ref. PDB, TRSM							
on request									
17	striker snapper AF A0767	TRST0100- ...	1		1601–3000				
18	stop 2,2mm	710937	1		601–3000				

Hinge side turning points				
Pos.	Description	Part number		required as per sash weight
		surface TS	RAL7037	80 kg
19	stay arm AX DF/3	Ref. PDB, TSAV47		1
20	corner hinge AX	Ref. PDB, TBEB41		1
21	cover cap AX EL	Ref. PDB, TKEL41		1
22	bottom hinge AX DF/3	Ref. PDB, TBEV43		1

Frame dimensions

3-sash Centre sash second opening turn
PVC GM Hinge side axxent 24+



Dimensions in mm

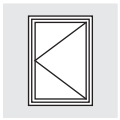
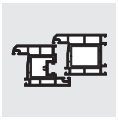
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB (frame rebate width) = FFB
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	380– 480	
1B	71	481–1650	
1C	435	851–1050	
	635	1051–1450	
	931	1451–1650	
2A	130	380–1650	
2B	419	851–1050	
	619	1051–1450	
	915	1451–1650	
4A	88		801–1600
	288		1601–2000
	400		2001–3000
4B	400		1601–3000
4C	264		2401–2800
	464		2801–3000
4D	248		2401–2800
	448		2801–3000

TITAN AF

Installation instructions



GS

1-sash square turn

PVC

basic security

centre handle pos. (variable)

Hinge side axxent 24+

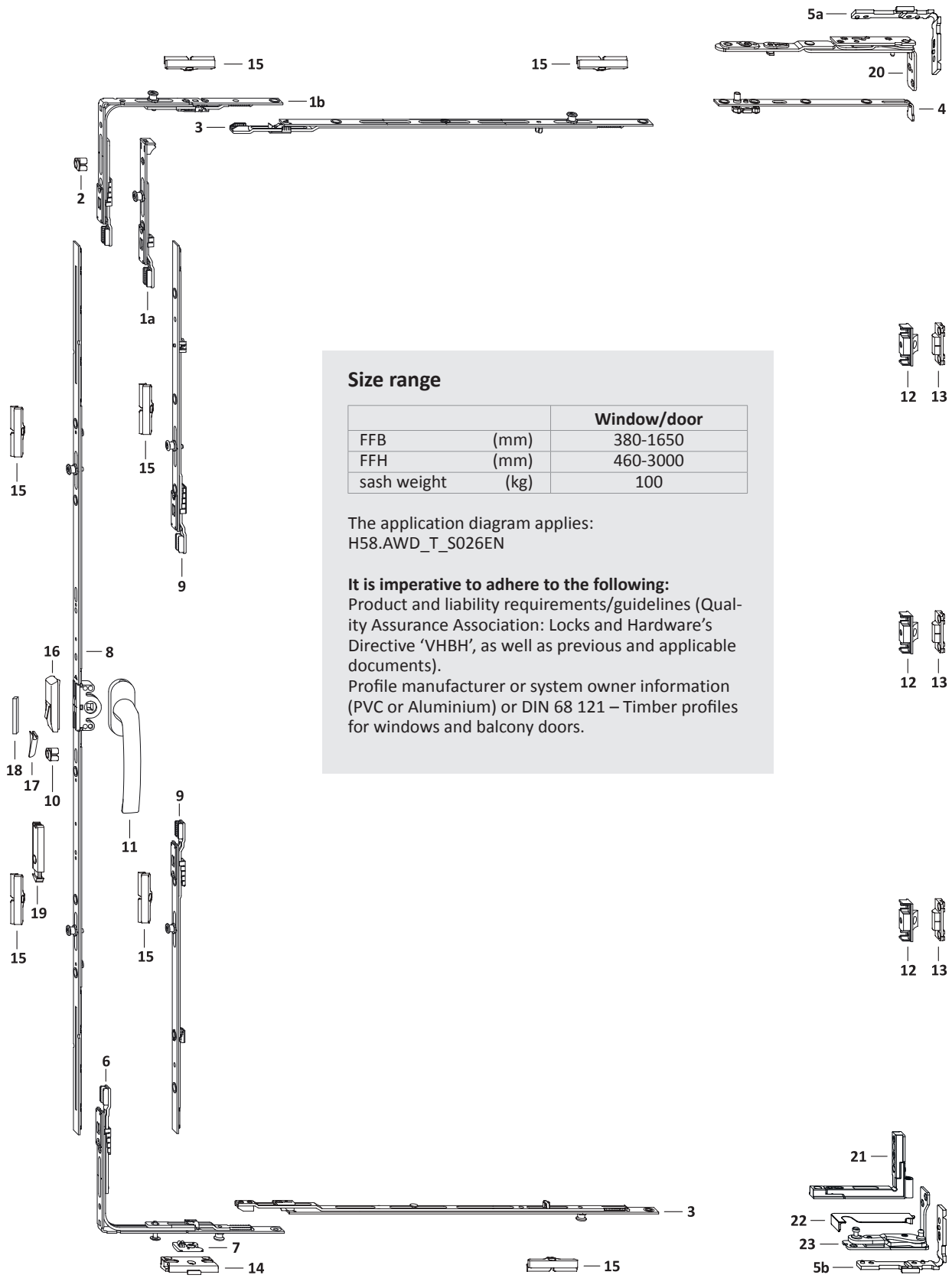
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear

hardware layout

1-sash square turn
PVC GM Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	460-3000
sash weight	(kg)	100

The application diagram applies:
H58.AWD_T_S026EN

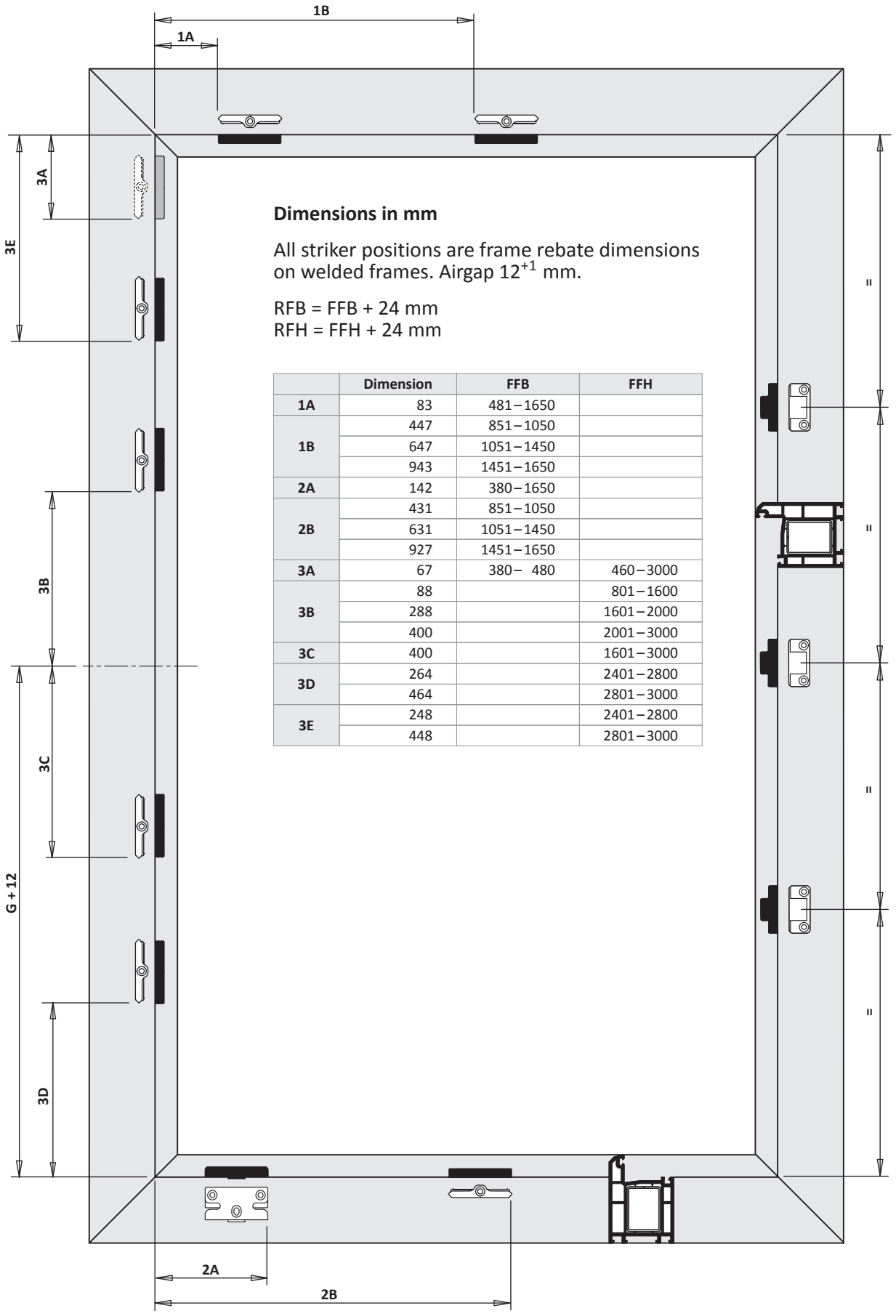
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							14	15
1a	locking bolt AF VS 180° 1RS	TESC2020- ...	1	380– 480				1
1b	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	481–1650				1
2	travel restrictor	TFHB0010- ...	1	380–1250	460– 600			
3	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	851–1050				2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				2
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				2
4	stay sash part DF AX	TSSV3020- ...	1	380–1650				
5	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650				
6	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	380–1650			1	
7	run up block AF 13 mm 13	TFFH0080- ...	1	380–1650				
8	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		2
9	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
10	travel restrictor	TFHB0010- ...	1		460–3000			
11	handle Globe	Ref.access. ZHGS	1		460–3000			
12	sash part MV	Ref. PDB, ZFMV01	1		801–1600			
	sash part MV	Ref. PDB, ZFMV01	2		1601–2400			
	sash part MV	Ref. PDB, ZFMV01	3		2401–3000			
13	frame part MV	Ref. PDB, ZRZM01	1		801–1600			
	frame part MV	Ref. PDB, ZRZM01	2		1601–2400			
	frame part MV	Ref. PDB, ZRZM01	3		2401–3000			
14	striker plate S-RS	Ref. PDB, TRSK						
15	striker plate S 56	Ref. PDB, TRSM						
on request								
16	mishandling device	TFBS0010- ...	1					
17	pressure piece	Ref. PDB, TFFD	1					
18	stop	Ref. PDB, FRZF01	1					
19	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points				
Pos.	Description	Part number		required as per sash weight
		surface TS	RAL7037	100 kg
20	stay arm AX DF	Ref. PDB, TSAV46		1
21	corner hinge AX	Ref. PDB, TBEB41		1
22	cover cap AX EL	Ref. PDB, TKEL41		1
23	bottom hinge AX	Ref. PDB, TBEV41		1

Frame dimensions

1-sash square turn
PVC GM Hinge side axxent 24+



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	447	851–1050	
	647	1051–1450	
	943	1451–1650	
2A	142	380–1650	
2B	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	380– 480	460–3000
3B	88		801–1600
	288		1601–2000
	400		2001–3000
3C	400		1601–3000
3D	264		2401–2800
	464		2801–3000
3E	248		2401–2800
	448		2801–3000

TITAN AF

Installation instructions

GS

1-sash square tilt-turn

PVC

basic security

centre handle pos. (variable)

Hinge side axxent 24+

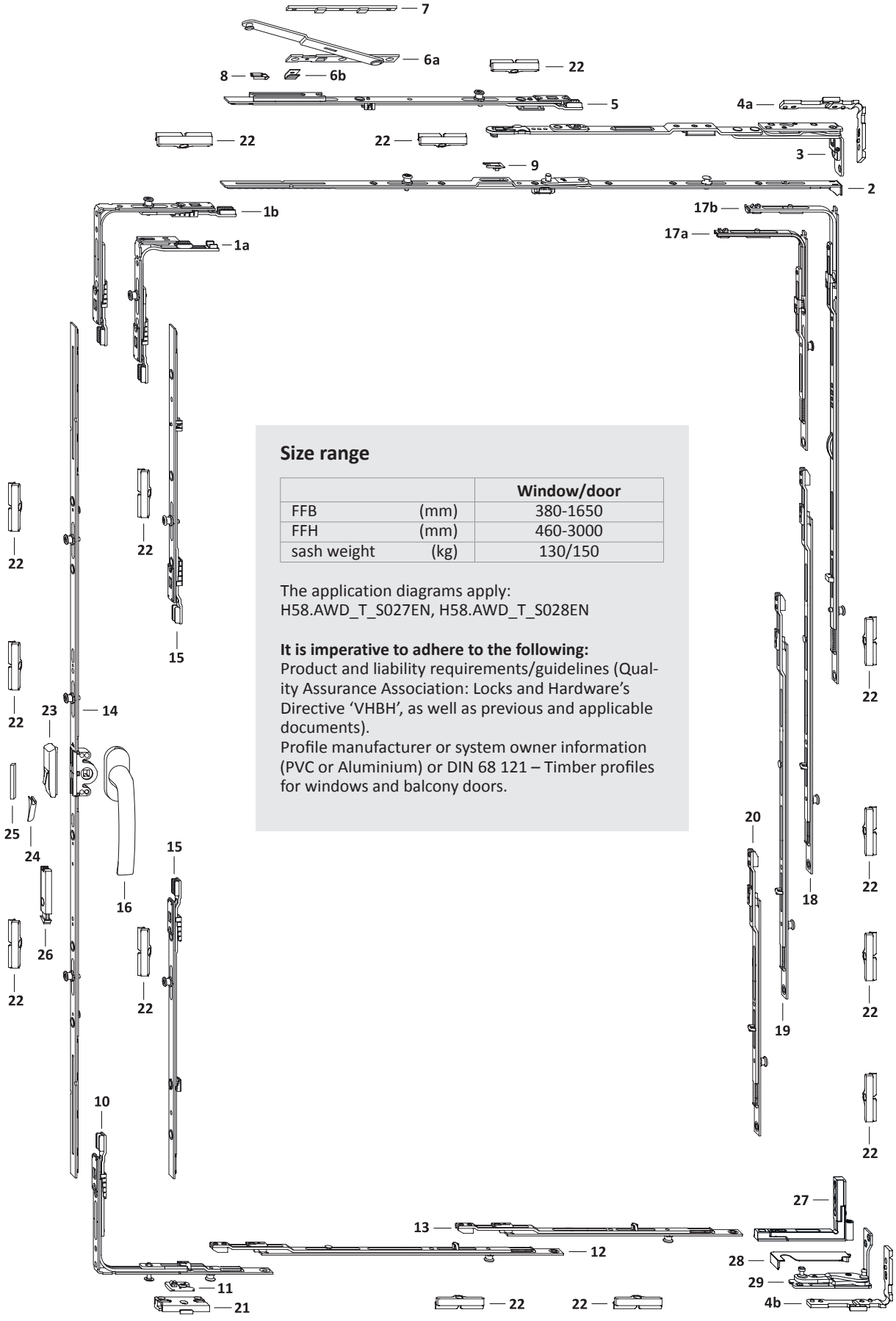
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS

hardware layout

1-sash square tilt-turn
PVC GM Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

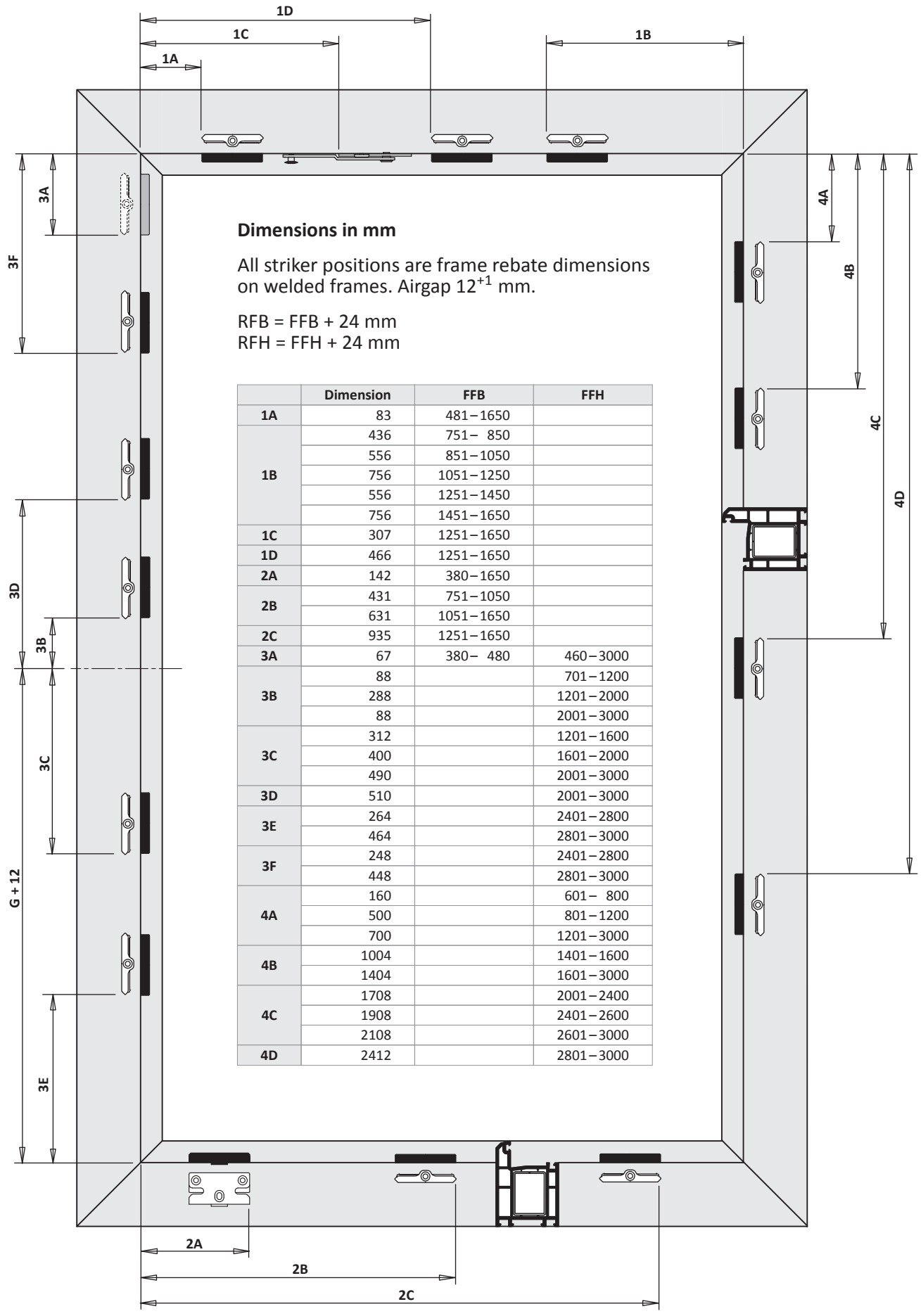
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							21	22
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	380– 480				1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	380– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 750				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751– 850				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	380– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	460– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	460– 900			
10	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	380–1650			1	
11	run up block AF 13 mm 13	TFFH0080- ...	1	380–1650				
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	751–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
14	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 700	300– 350		
	gear 15 AF sz 70 1RS	TGMK4030- ...			701– 800	350– 400		1
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201–1600	600– 800		2
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001–3000	1000–1500		3
15	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
16	handle Globe	Ref.access. ZHGS	1		460–3000			
17a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		601– 800			1
17b	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
21	striker plate S-RS	Ref. PDB, TRSK						
22	striker plate S 56	Ref. PDB, TRSM						
on request								
23	mishandling device	TFBS0010- ...	1					
24	pressure piece	Ref. PDB, TFFD	1					
25	stop	Ref. PDB, FRZF01	1					
26	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
27	corner hinge AX	Ref. PDB, TBEB41		1	1
28	cover cap AX EL	Ref. PDB, TKEL41		1	1
29	bottom hinge AX	Ref. PDB, TBEV41		1	1

Frame dimensions

1-sash square tilt-turn
PVC GM Hinge side axxent 24+



Dimensions in mm

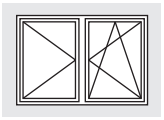
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

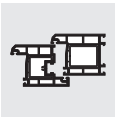
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	436	751– 850	
	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	380–1650	
2B	431	751–1050	
	631	1051–1650	
2C	935	1251–1650	
3A	67	380– 480	460–3000
3B	88		701–1200
	288		1201–2000
	88		2001–3000
3C	312		1201–1600
	400		1601–2000
	490		2001–3000
3D	510		2001–3000
3E	264		2401–2800
	464		2801–3000
3F	248		2401–2800
	448		2801–3000
4A	160		601– 800
	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1404		1601–3000
4C	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4D	2412		2801–3000

TITAN AF

Installation instructions





GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

centre handle pos. (variable)

Hinge side axxent 24+

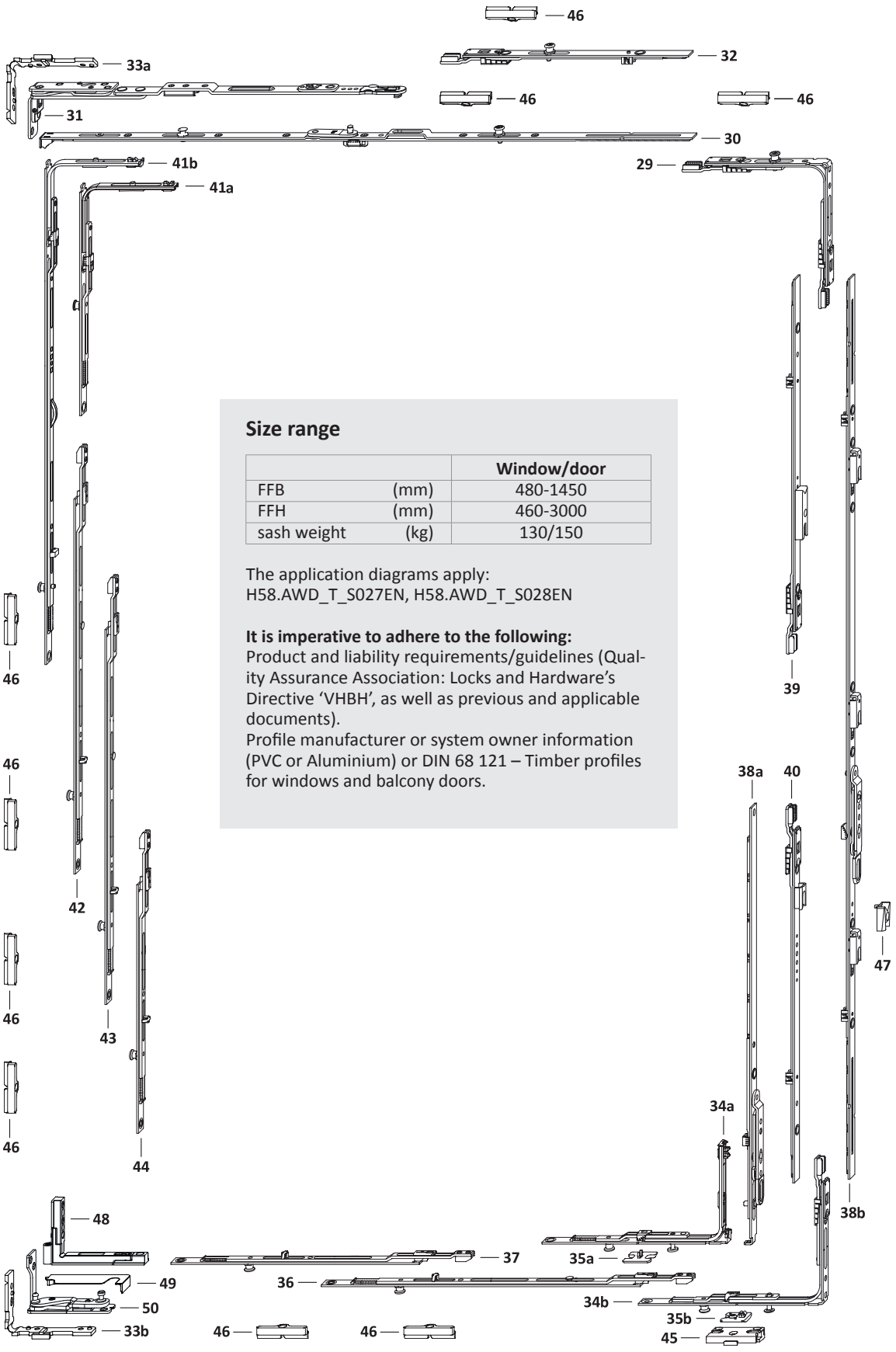
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700; secondary sash with DK-stay
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+

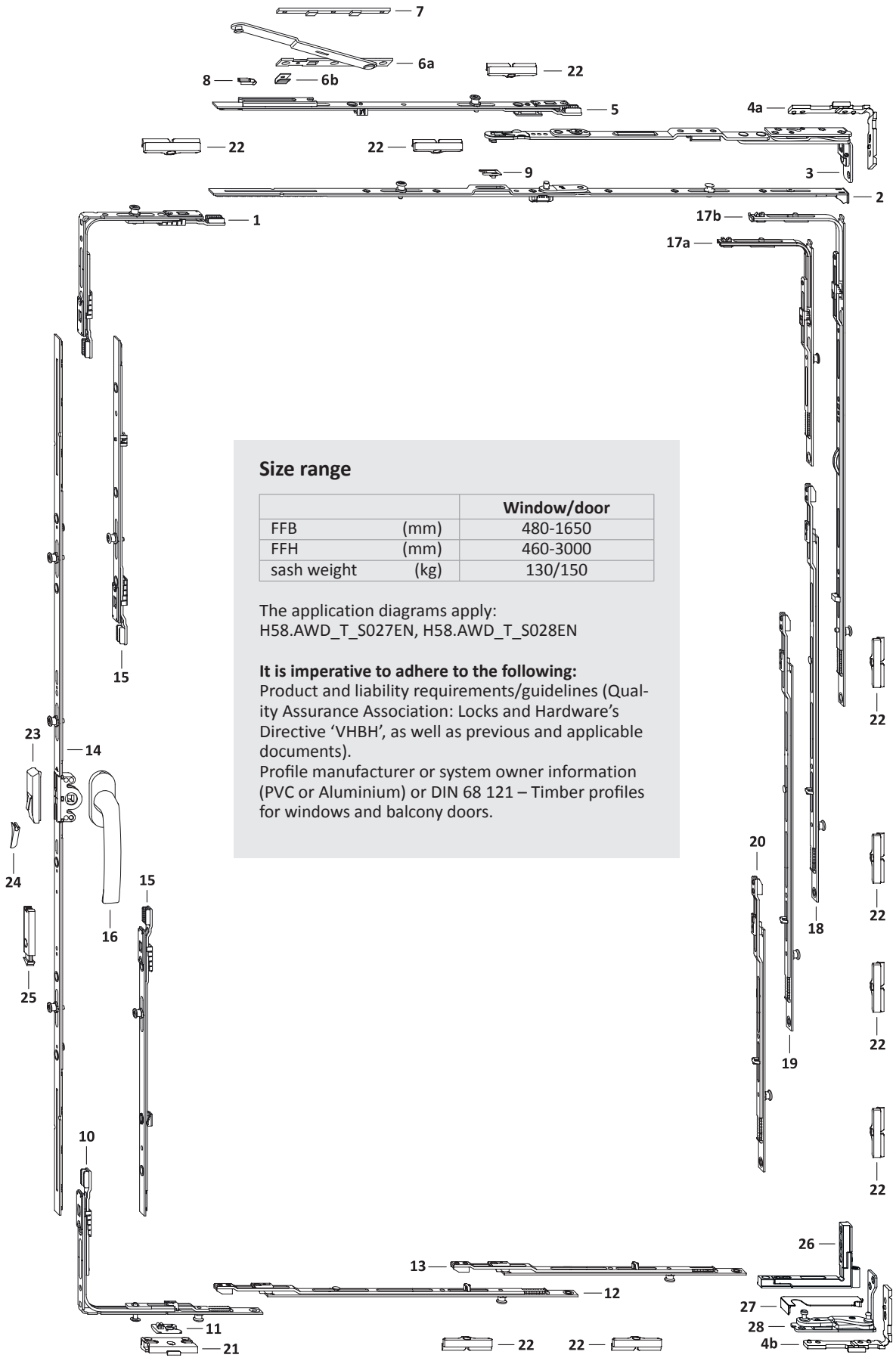


Size range

		Window/door
FFB	(mm)	480-1450
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

		Window/door
FFB	(mm)	480-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

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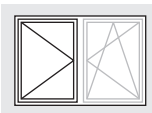
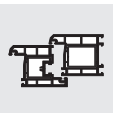
List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	45	46
29	corn.drive VSO 1RS	TEUL4010- ...	1	480–1450				1
30	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 750				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751– 850				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1450				1
31	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1450				
32	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
33	crt. accessories AX	Ref. PDB, TMZV41	1	1251–1450				
34a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480–1450	460– 800		1	
34b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480–1450	801–3000		1	
35a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480–1450	460– 800			
35b	run up block AF 13 mm 13	TFFH0080- ...	1	480–1450	801–3000			
36	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	751–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
37	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1450				1
38a	sec.sash gear 16 sz 30	TGKS0010- ...	1		460– 600	230– 300		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300– 350		
38b	sec.sash gear 16 AF sz 70 1SB	TGMS4030- ...	1		701– 800	350– 400		
	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...			801–1200	400– 600		
	sec.sash gear 16 AF 120 2SB 70	TGMS4120- ...			1201–1600	600– 800		
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000		
	sec.sash gear 16 AF 200 3SB 70	TGMS4100- ...			2001–3000	1000–1500		
39	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
40	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800			
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000			
41a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		601– 800			1
41b	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
42	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
43	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
44	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
45	striker plate S-RS	Ref. PDB, TRSK						
46	striker plate S 56	Ref. PDB, TRSM						
on request								
47	striker snapper AF A0767	TRST0100- ...	1		1601–3000			

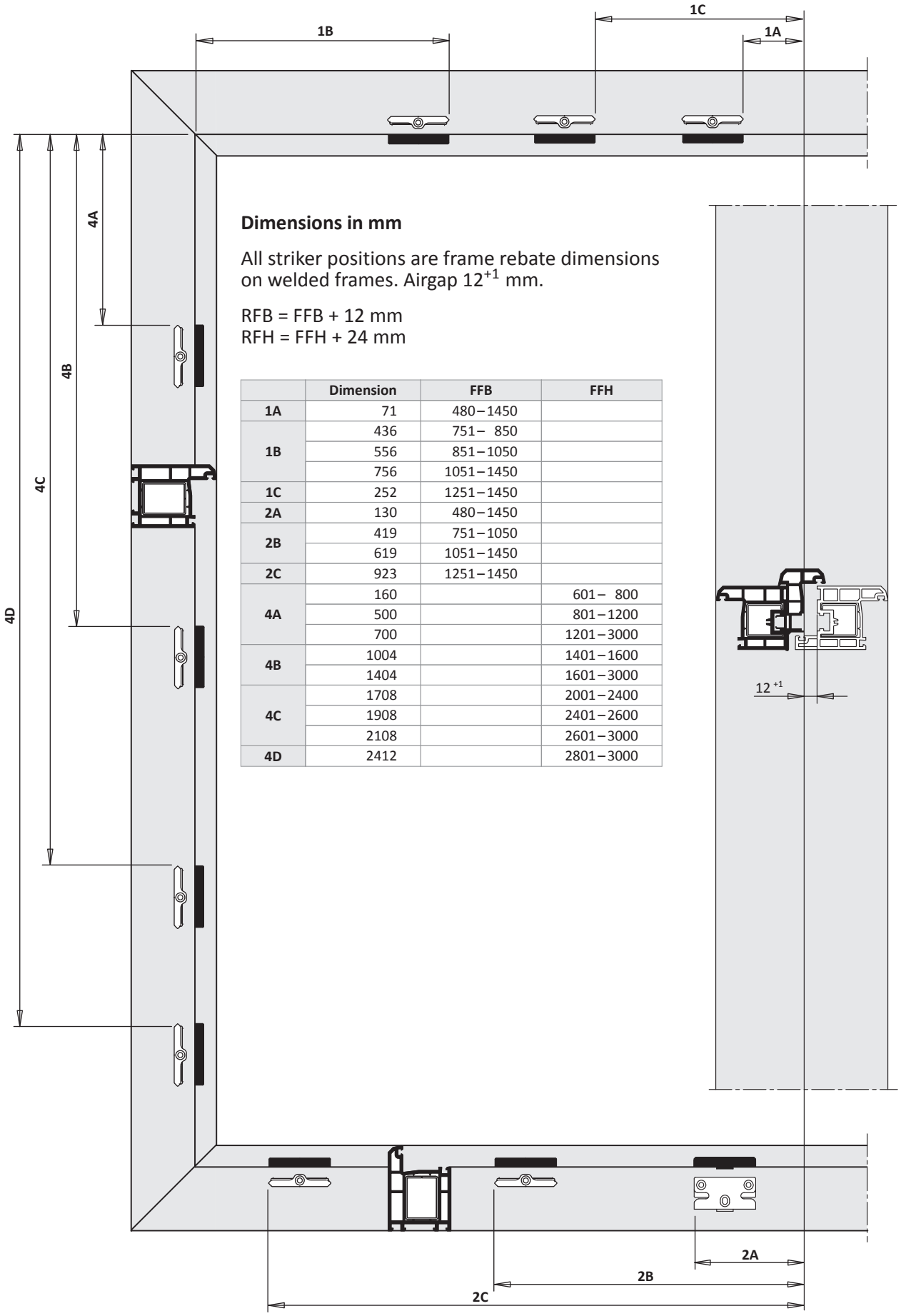
Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
48	corner hinge AX	Ref. PDB, TBEB41		1	1
49	cover cap AX EL	Ref. PDB, TKEL41		1	1
50	bottom hinge AX	Ref. PDB, TBEV41		1	1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							21	22
1	corn.drive VSO 1RS	TEUL4010- ...	1	480–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 750				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751– 850				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	480–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050				
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250				
10	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480–1650			1	
11	run up block AF 13 mm 13	TFFH0080- ...	1	480–1650				
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	751–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
14	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 700	300– 350		
	gear 15 AF sz 70 1RS	TGMK4030- ...			701– 800	350– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201–1600	600– 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001–3000	1000–1500		
15	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
16	handle Globe	Ref.access. ZHGS	1		460–3000			
17a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		601– 800			1
17b	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
21	striker plate S-RS	Ref. PDB, TRSK						
22	striker plate S 56	Ref. PDB, TRSM						
on request								
23	mishandling device	TFBS0010- ...	1		601–3000			
24	pressure piece	Ref. PDB, TFFD	1		601–3000			
25	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
26	corner hinge AX	Ref. PDB, TBEB41		1	1
27	cover cap AX EL	Ref. PDB, TKEL41		1	1
28	bottom hinge AX	Ref. PDB, TBEV41		1	1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+

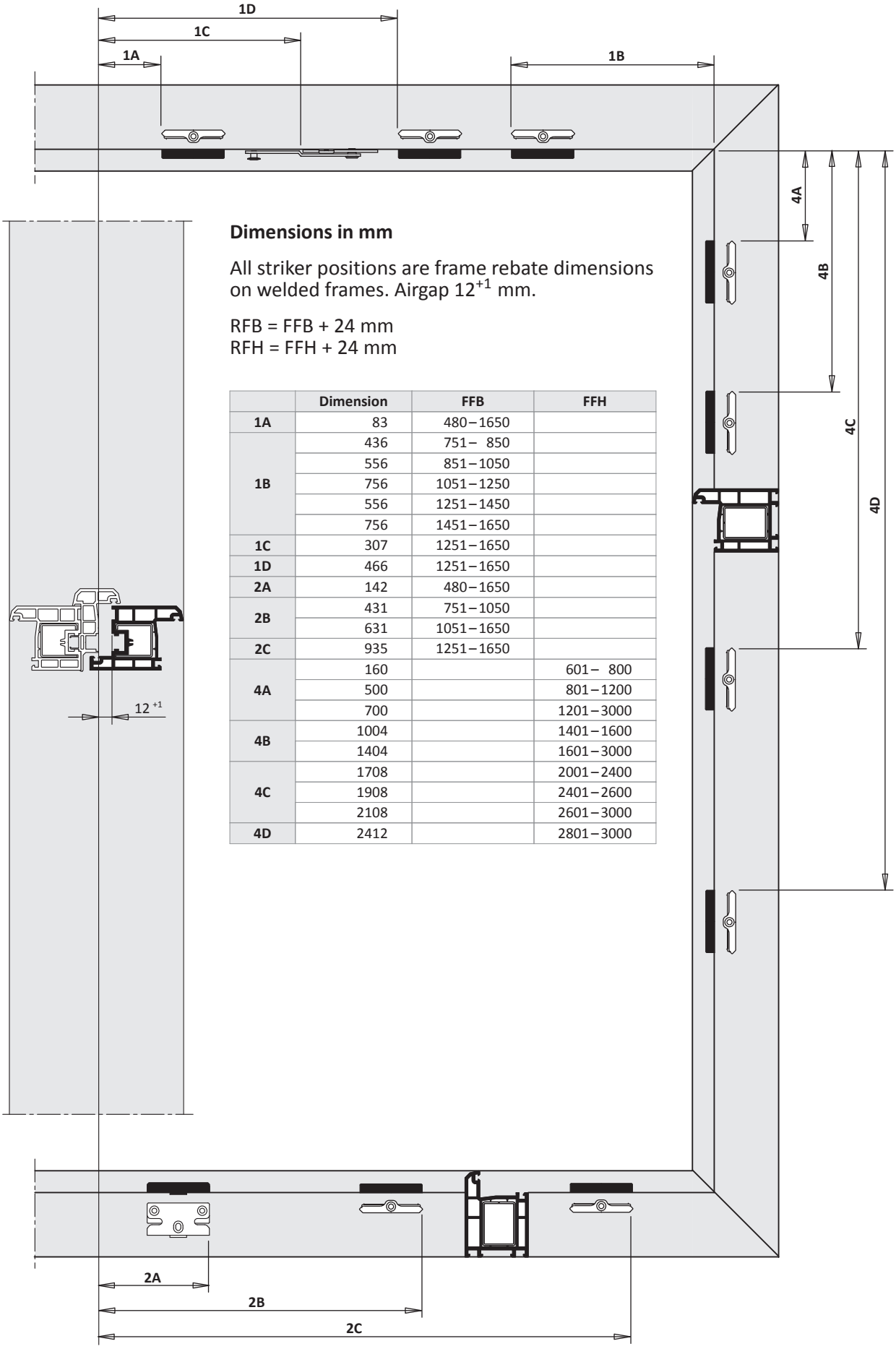


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	480 – 1450	
1B	436	751 – 850	
	556	851 – 1050	
	756	1051 – 1450	
1C	252	1251 – 1450	
2A	130	480 – 1450	
2B	419	751 – 1050	
	619	1051 – 1450	
2C	923	1251 – 1450	
4A	160		601 – 800
	500		801 – 1200
	700		1201 – 3000
4B	1004		1401 – 1600
	1404		1601 – 3000
4C	1708		2001 – 2400
	1908		2401 – 2600
	2108		2601 – 3000
4D	2412		2801 – 3000



Dimensions in mm

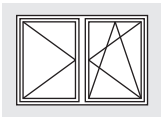
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	436	751– 850	
	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	480–1650	
2B	431	751–1050	
	631	1051–1650	
2C	935	1251–1650	
4A	160		601– 800
	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1404		1601–3000
4C	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4D	2412		2801–3000

TITAN AF

Installation instructions



GS

2-sash square tilt-turn/turn DS 16

PVC

basic security

centre handle pos. (variable)

Hinge side axxent 24+

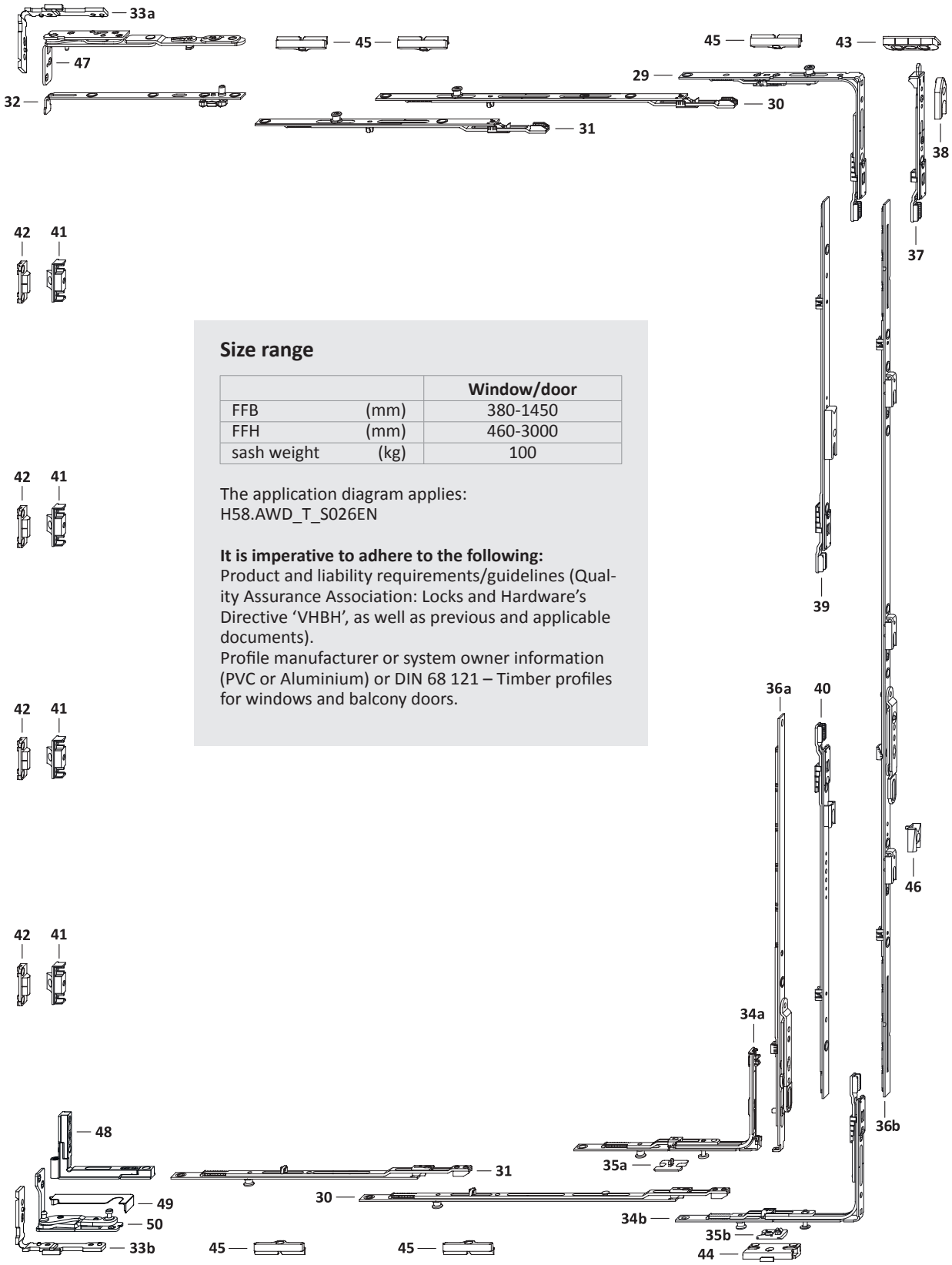
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 1RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	380-1450
FFH	(mm)	460-3000
sash weight	(kg)	100

The application diagram applies:
H58.AWD_T_S026EN

It is imperative to adhere to the following:
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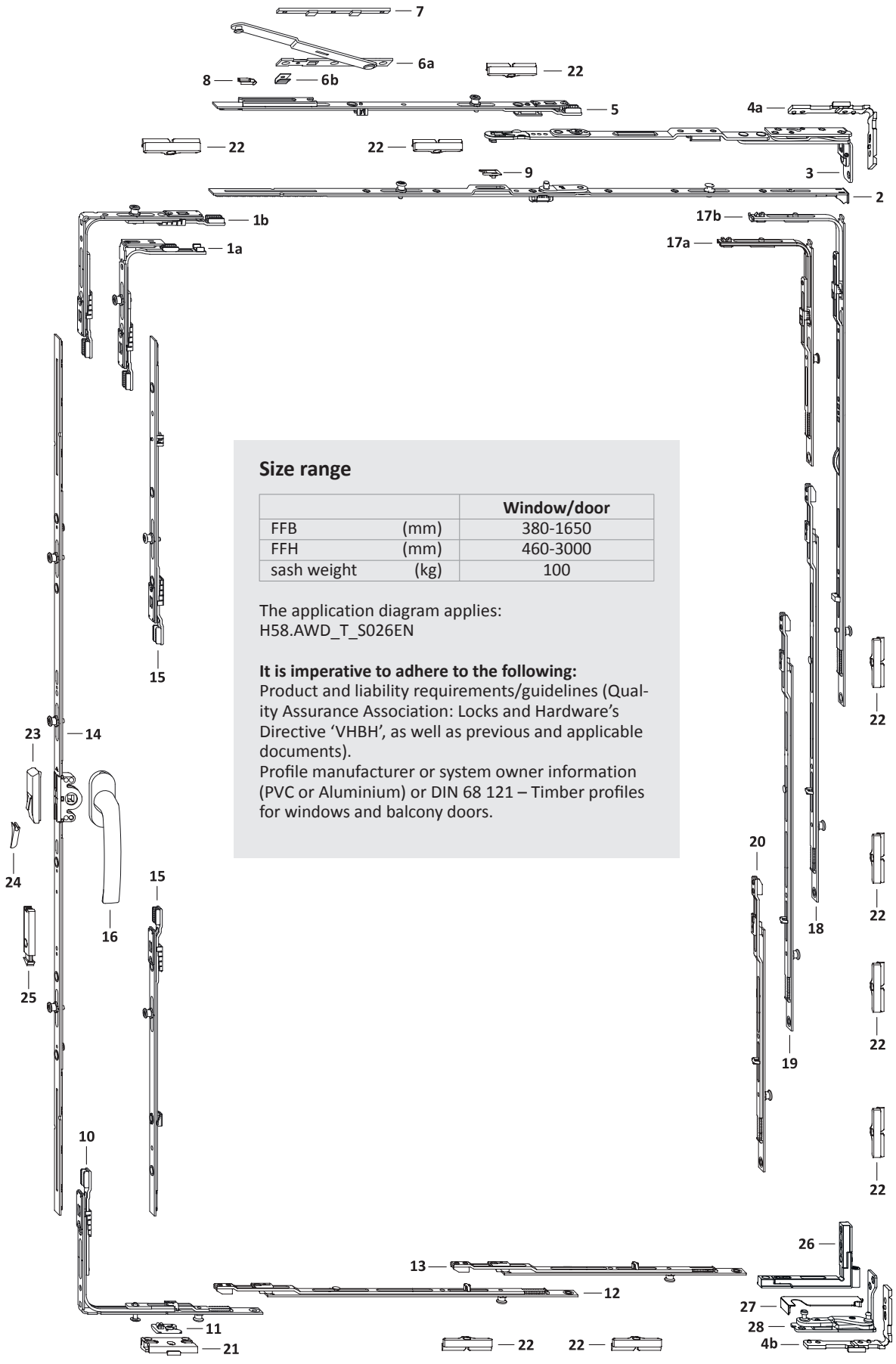

Size range

		Window/door
FFB	(mm)	380-1650
FFH	(mm)	460-3000
sash weight	(kg)	100

The application diagram applies:
H58.AWD_T_S026EN

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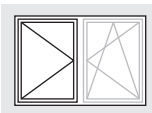
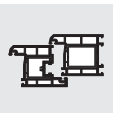
List of fittings slave sash

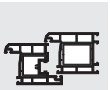
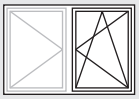
2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
						In the main sash	43	44	45
29	corn.drive VSO/K+ DF 1RS	TEUL4110- ...	1	481–1450					1
30	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	751–1050					2
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					2
31	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	2	1251–1450					2
32	stay sash part DF AX	TSSV3020- ...	1	380–1450					
33	crt. accessories AX	Ref. PDB, TMZV41	1	380–1450					
34a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	380–1450	460– 800			1	
34b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	380–1450	801–3000			1	
35a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	380–1450	460– 800				
35b	run up block AF 13 mm 13	TFFH0080- ...	1	380–1450	801–3000				
36a	sec.sash gear 16 sz 30	TGKS0010- ...	1		460– 600	230– 300			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300– 350			
36b	sec.sash gear 16 AF sz 70 1SB	TGMS4030- ...	1		701– 800	350– 400			
	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...			801–1200	400– 600			
	sec.sash gear 16 AF 120 2SB 70	TGMS4120- ...			1201–1600	600– 800			
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000			
	sec.sash gear 16 AF 200 3SB 70	TGMS4100- ...			2001–3000	1000–1500			
37	locking bolt AF VSO RSA 11	TESC2030- ...	1	380– 480	460–3000		1		
38	striker plate A0767	TRSA0010- ...	1	380– 480	460–3000				
39	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
40	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800				
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000				
41	sash part MV	Ref. PDB, ZFMV01	1		701–1400				
	sash part MV	Ref. PDB, ZFMV01	2		1401–2100				
	sash part MV	Ref. PDB, ZFMV01	3		2101–2800				
	sash part MV	Ref. PDB, ZFMV01	4		2801–3000				
42	frame part MV	Ref. PDB, ZRZM01	1		701–1400				
	frame part MV	Ref. PDB, ZRZM01	2		1401–2100				
	frame part MV	Ref. PDB, ZRZM01	3		2101–2800				
	frame part MV	Ref. PDB, ZRZM01	4		2801–3000				
43	striker V	Ref. PDB, FRZV01							
44	striker plate S-RS	Ref. PDB, TRSK							
45	striker plate S 56	Ref. PDB, TRSM							
on request									
46	striker snapper AF A0767	TRST0100- ...	1		1601–3000				

Hinge side turning points				
Pos.	Description	Part number		required as per sash weight
		surface TS	RAL7037	100 kg
47	stay arm AX DF	Ref. PDB, TSAV46		1
48	corner hinge AX	Ref. PDB, TBEB41		1
49	cover cap AX EL	Ref. PDB, TKEL41		1
50	bottom hinge AX	Ref. PDB, TBEV41		1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+

TITAN AF

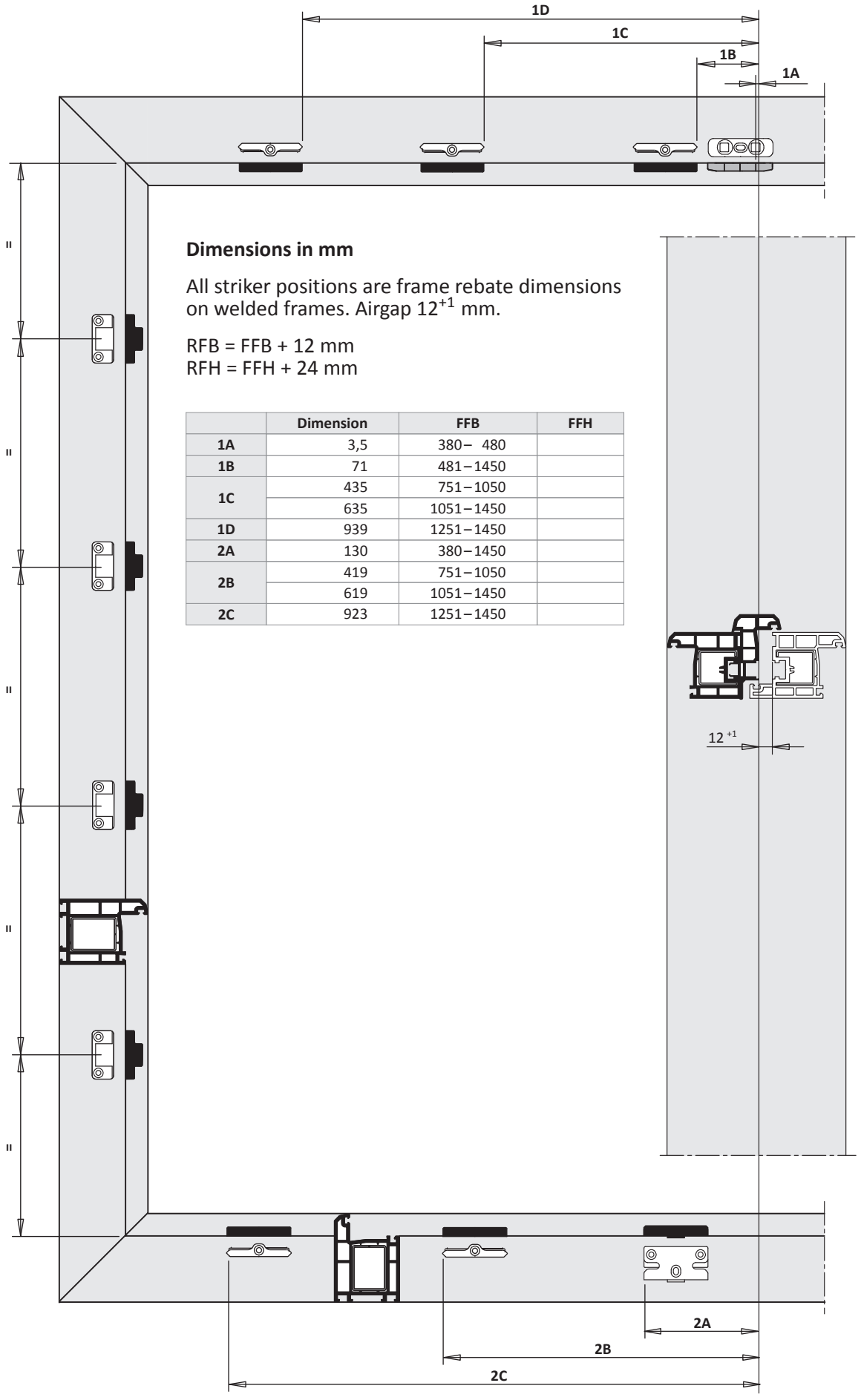
GS

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							21	22
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	380– 480				
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	380– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 750				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751– 850				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	380– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	380–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	460– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	460– 900			
10	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	380–1650			1	
11	run up block AF 13 mm 13	TFFH0080- ...	1	380–1650				
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	751–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	1251–1650				1
14	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 700	300– 350		
	gear 15 AF sz 70 1RS	TGMK4030- ...			701– 800	350– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201–1600	600– 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001–3000	1000–1500		
15	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
16	handle Globe	Ref.access. ZHGS	1		460–3000			
17a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		601– 800			1
17b	corn.drive BS/K3 sz 1+ 1RS	TEUL2410- ...	1		801–1200			1
	corn.drive BS/K3 sz 2+ 1RS	TEUL2420- ...			1201–3000			1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
21	striker plate S-RS	Ref. PDB, TRSK						
22	striker plate S 56	Ref. PDB, TRSM						
			on request					
23	mishandling device	TFBS0010- ...	1		601–3000			
24	pressure piece	Ref. PDB, TFFD	1		601–3000			
25	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points				
Pos.	Description	Part number		required as per sash weight
		surface TS	RAL7037	100 kg
26	corner hinge AX	Ref. PDB, TBEB41		1
27	cover cap AX EL	Ref. PDB, TKEL41		1
28	bottom hinge AX	Ref. PDB, TBEV41		1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+

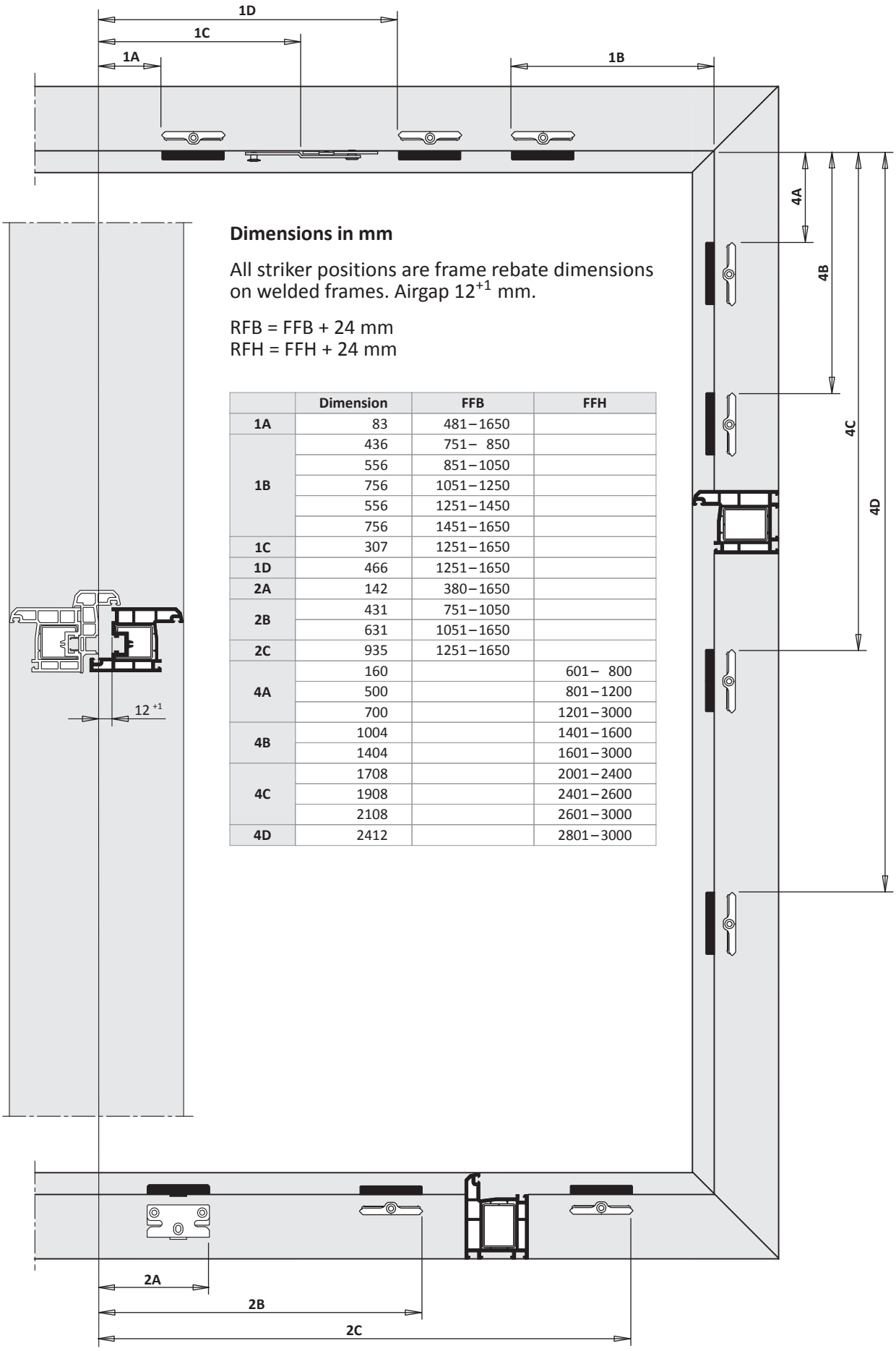


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	3,5	380– 480	
1B	71	481–1450	
1C	435	751–1050	
	635	1051–1450	
1D	939	1251–1450	
2A	130	380–1450	
2B	419	751–1050	
	619	1051–1450	
2C	923	1251–1450	



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	436	751– 850	
	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	380–1650	
2B	431	751–1050	
	631	1051–1650	
2C	935	1251–1650	
4A	160		601– 800
	500		801–1200
	700		1201–3000
4B	1004		1401–1600
	1404		1601–3000
4C	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4D	2412		2801–3000

Bottom inliner

1-sash square tilt-turn H48.TAFKFK1S019EN 4 - 3

2-sash square tilt-turn/turn DS 16 H48.TAFKFK1S020EN 4 - 9

Tilt before turn (TBT)

1-sash square tilt before turn (TBT) H48.TAFKFK1S021EN 4 - 17

Bottom double cam SB R-RS

1-sash square tilt-turn H48.TAFKFK1S403EN 4 - 23

2-sash square tilt-turn/turn DS 16 H48.TAFKFK1S404EN 4 - 29

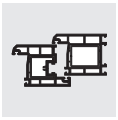
Locking-points distance 700

1-sash square tilt-turn H48.TAFKFK1S303EN 4 - 37

2-sash square tilt-turn/turn DS 16 H48.TAFKFK1S304EN 4 - 43

TITAN AF

Installation instructions



RC1

1-sash square tilt-turn

PVC

RC1

fixed handle position

Hinge side axxent 24+

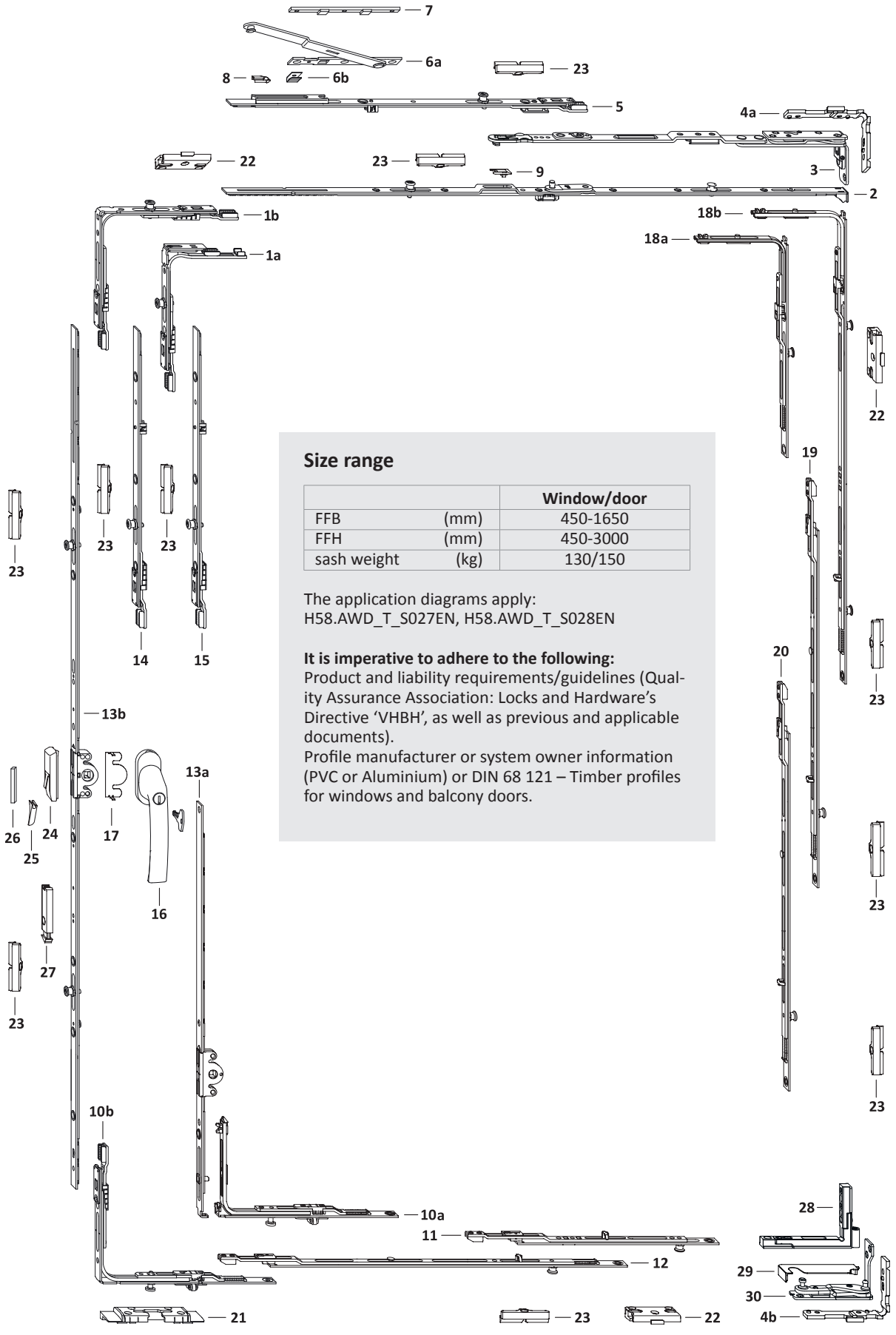
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout

1-sash square tilt-turn
PVC GK Hinge side axxent 24+

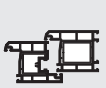


Size range

		Window/door
FFB	(mm)	450-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

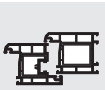
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							21	22	23
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	450– 480				1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1650				1	
2	stay sash part AF AX sz 1	TSSV4000- ...	1	450– 680					
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850					
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050					1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250					1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450					1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650					1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	450– 680					
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850					
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050					
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250					
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450					
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650					
4	crt. accessories AX	Ref. PDB, TMZV41	1	450–1650					
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650					1
6	additional stay	Ref. PDB, TSZS	1	1251–1650					
7	packer Z	Ref. PDB, FRUP01	1	1251–1650					
8	tilt restr. additional stay ..	889008	1	1251–1650					
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	450– 900				
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	450– 900				
10a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	450–1250	450– 600		1		
10b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	450–1650	601–3000		1		
11	extension sz 1+ 1RS	TVSO0200- ...	1	450– 500				1	
	extension sz 2+ 1RS	TVSL0320- ...		501– 680				1	
	extension sz 3+ 1RS	TVSL0330- ...		681– 850				1	
	extension sz 2+ 1RS	TVSL0320- ...		851–1250				1	
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450				1	
	extension sz 3+ 1RS	TVSL0330- ...		1451–1650				1	
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					1
13a	gear 15 sz 30/G180	TGKK3010- ...	1	450–1250	450– 600	180			
13b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300			
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400			1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500			1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600			1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700			1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700			2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000			2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000			2
14	linkage AF sz 1	TZZS0150- ...	1		2201–2400				
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600				1
	linkage AF sz 1	TZZS0150- ...			2601–2800				
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000				1
15	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800				1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000				1
16	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		450–3000				
17	anti-drill guard E	TGBS0010- ...	1		450–3000				
18a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450– 800			1	
18b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			1	1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000				1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000				1
21	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
22	striker plate S-RS	Ref. PDB, TRSK							
23	striker plate S 56	Ref. PDB, TRSM							
on request									
24	mishandling device	TFBS0010- ...	1						

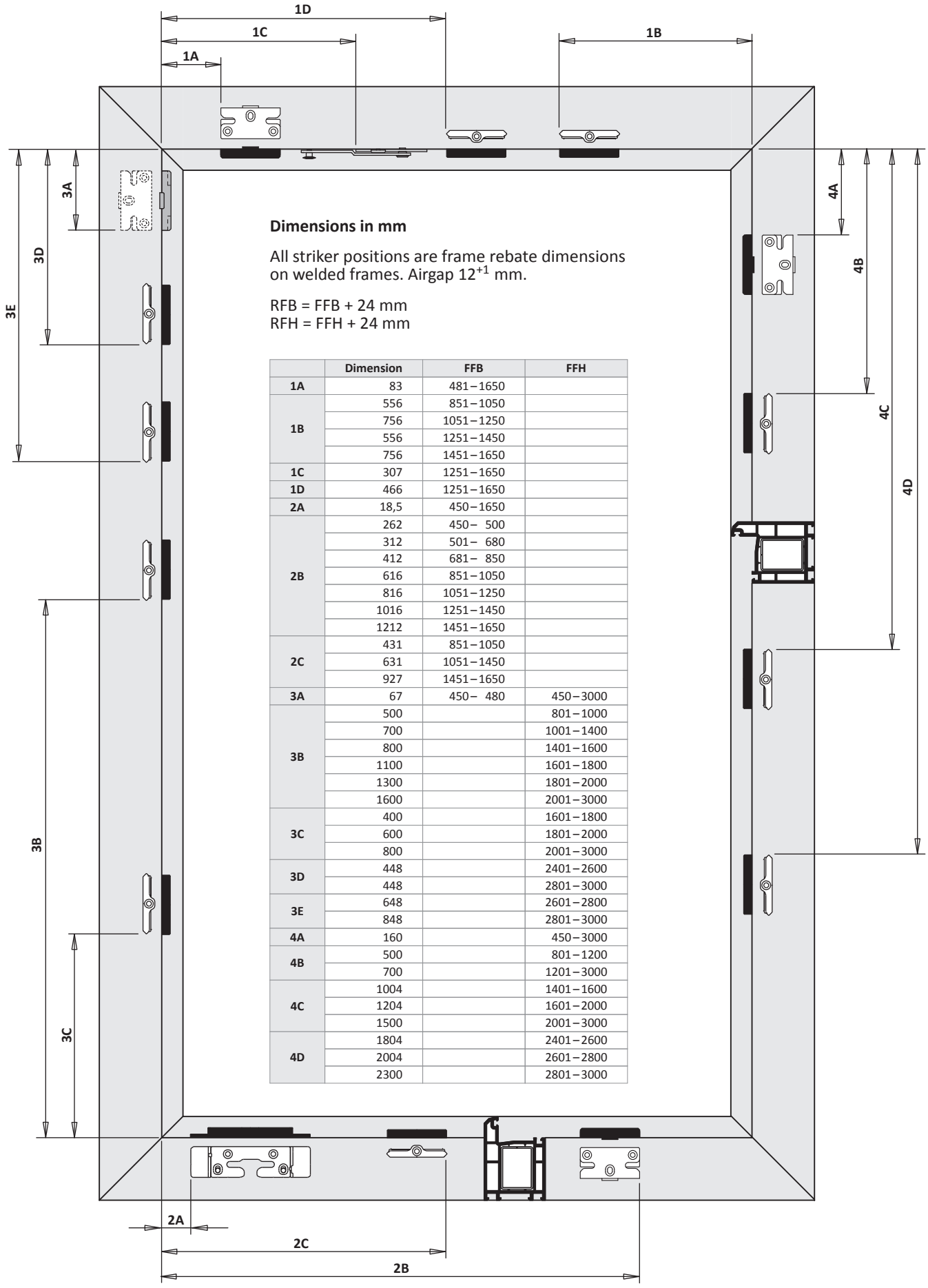
List of fittings

1-sash square tilt-turn
PVC GK Hinge side axxent 24+



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							21	22	23
25	pressure piece	Ref. PDB, TFFD	1						
26	stop	Ref. PDB, FRZF01	1						
27	snapper rh.	TFST0021- ...	1		1801 – 3000				
	snapper lh.	TFST0022- ...			1801 – 3000				

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
28	corner hinge AX	Ref. PDB, TBEB41		1	1
29	cover cap AX EL	Ref. PDB, TKEL41		1	1
30	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

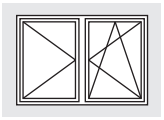
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

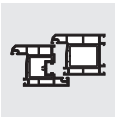
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	450–1650	
2B	262	450– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1212	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	450– 480	450–3000
3B	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3C	400		1601–1800
	600		1801–2000
	800		2001–3000
3D	448		2401–2600
	448		2801–3000
3E	648		2601–2800
	848		2801–3000
4A	160		450–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





RC1

2-sash square tilt-turn/turn DS 16

PVC

RC1

fixed handle position

Hinge side axxent 24+

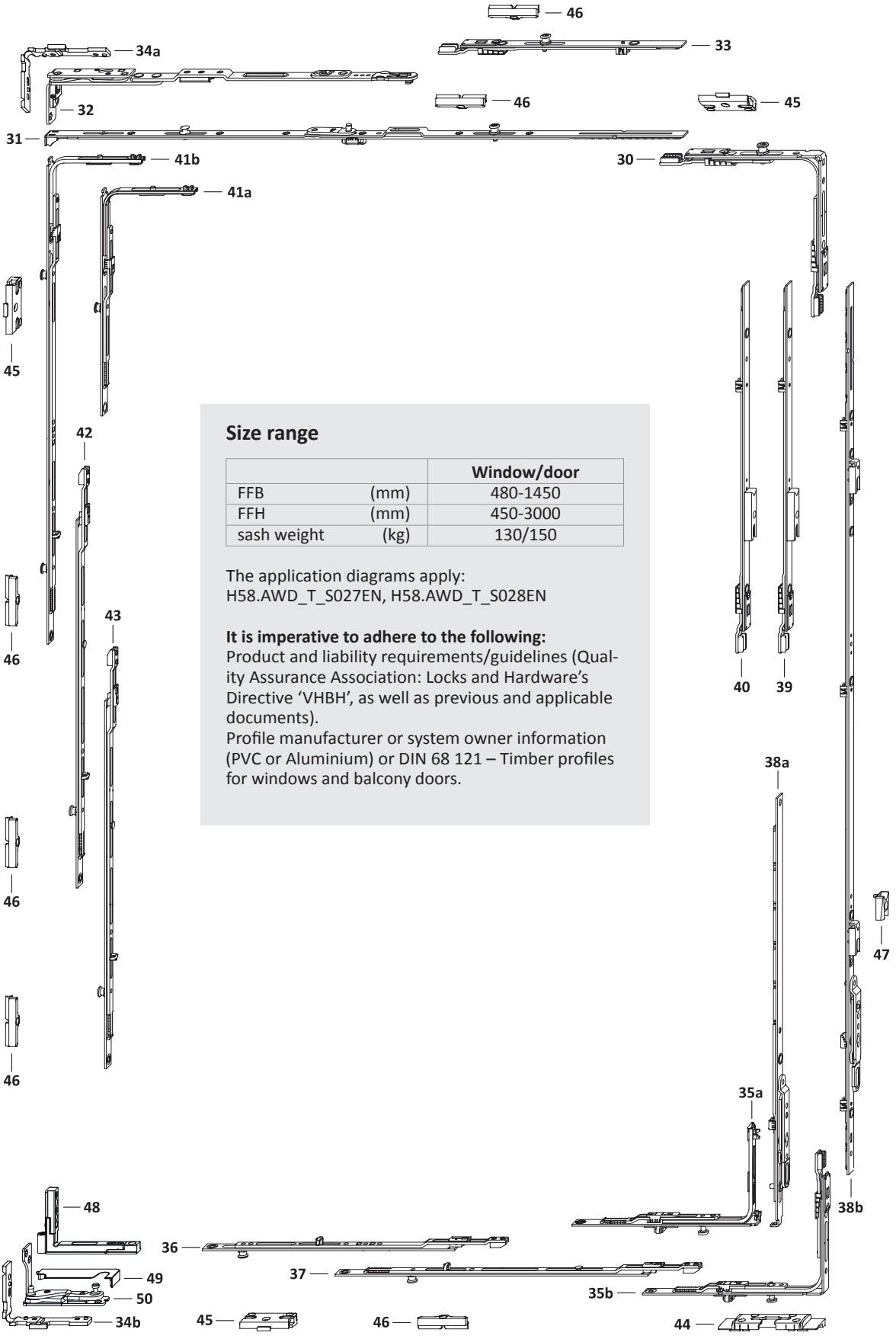
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+

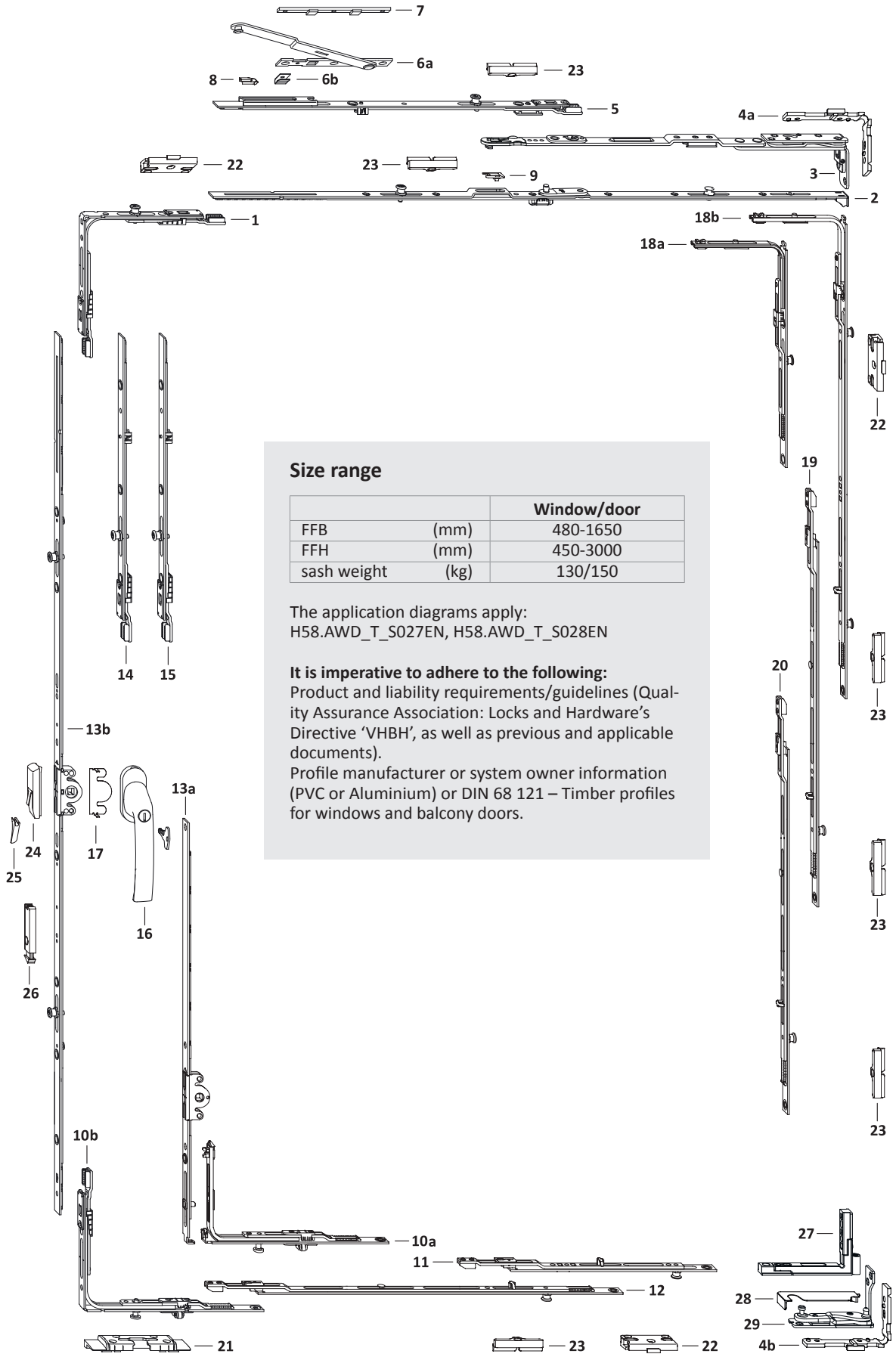


Size range

		Window/door
FFB	(mm)	480-1450
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

		Window/door
FFB	(mm)	480-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

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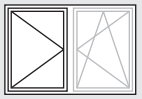
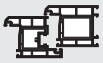
List of fittings slave sash

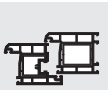
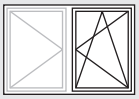
2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
						In the main sash	44	45	46
30	corn.drive VSO 1RS	TEUL4010- ...	1	480–1450				1	
31	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680					
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850					
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050					1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1450					1
32	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680					
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850					
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050					
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1450					
33	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450					1
34	crt. accessories AX	Ref. PDB, TMZV41	1	480–1450					
35a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	480–1450	450– 800		1		
35b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	480–1450	801–3000		1		
36	extension sz 1+ 1RS	TVSO0200- ...	1	480– 500				1	
	extension sz 2+ 1RS	TVSL0320- ...		501– 680				1	
	extension sz 3+ 1RS	TVSL0330- ...		681– 850				1	
	extension sz 2+ 1RS	TVSL0320- ...		851–1250				1	
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450				1	
37	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					1
38a	sec.sash gear 16 sz 30	TGKS0010- ...	1	480–1250	450– 600	180			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300			
38b	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400			
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500			
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600			
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401–1600	700			
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700			
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000			
	sec.sash gear 16AF200/G10002SB	TGKS4110- ...			2001–3000	1000			
39	linkage AF sz 1	TZZS0150- ...	1		2201–2400				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2401–2600				
	linkage AF sz 1	TZZS0150- ...			2601–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
40	linkage AF sz 2 1SB-RS	TZKS1030- ...	1		2601–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
41a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450– 800			1	
41b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			1	1
42	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000				1
43	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000				1
44	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
45	striker plate S-RS	Ref. PDB, TRSK							
46	striker plate S 56	Ref. PDB, TRSM							
on request									
47	striker snapper AF A0767	TRST0100- ...	1		1801–3000				

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
48	corner hinge AX	Ref. PDB, TBEB41		1	1
49	cover cap AX EL	Ref. PDB, TKEL41		1	1
50	bottom hinge AX	Ref. PDB, TBEV41		1	1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+

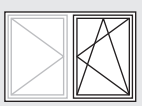
TITAN AF

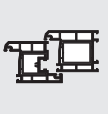
RC1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							21	22	23
1	corn.drive VSO 1RS	TEUL4010- ...	1	480–1650				1	
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680					
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850					
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050					1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250					1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450					1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650					1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680					
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850					
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050					
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250					
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450					
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650					
4	crt. accessories AX	Ref. PDB, TMZV41	1	480–1650					
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650					1
6	additional stay	Ref. PDB, TSZS	1	1251–1650					
7	packer Z	Ref. PDB, FRUP01	1	1251–1650					
8	tilt restr. additional stay ..	889008	1	1251–1650					
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	450– 900				
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	450– 900				
10a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	480–1250	450– 600		1		
10b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	480–1650	601–3000		1		
11	extension sz 1+ 1RS	TVSO0200- ...	1	480– 500				1	
	extension sz 2+ 1RS	TVSL0320- ...		501– 680				1	
	extension sz 3+ 1RS	TVSL0330- ...		681– 850				1	
	extension sz 2+ 1RS	TVSL0320- ...		851–1250				1	
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450				1	
	extension sz 3+ 1RS	TVSL0330- ...		1451–1650				1	
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					1
13a	gear 15 sz 30/G180	TGKK3010- ...	1	480–1250	450– 600	180			
13b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300			
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400			
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500			
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600			
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700			
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700			
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000			
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000			
14	linkage AF sz 1	TZZS0150- ...	1		2201–2400				
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600				
	linkage AF sz 1	TZZS0150- ...			2601–2800				
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000				
15	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800				
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000				
16	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		450–3000				
17	anti-drill guard E	TGBS0010- ...	1		450–3000				
18a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450– 800			1	
18b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			1	1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000				1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000				1
21	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
22	striker plate S-RS	Ref. PDB, TRSK							
23	striker plate S 56	Ref. PDB, TRSM							
on request									
24	mishandling device	TFBS0010- ...	1		601–3000				
25	pressure piece	Ref. PDB, TFFD	1		601–3000				

List of fittings main sash

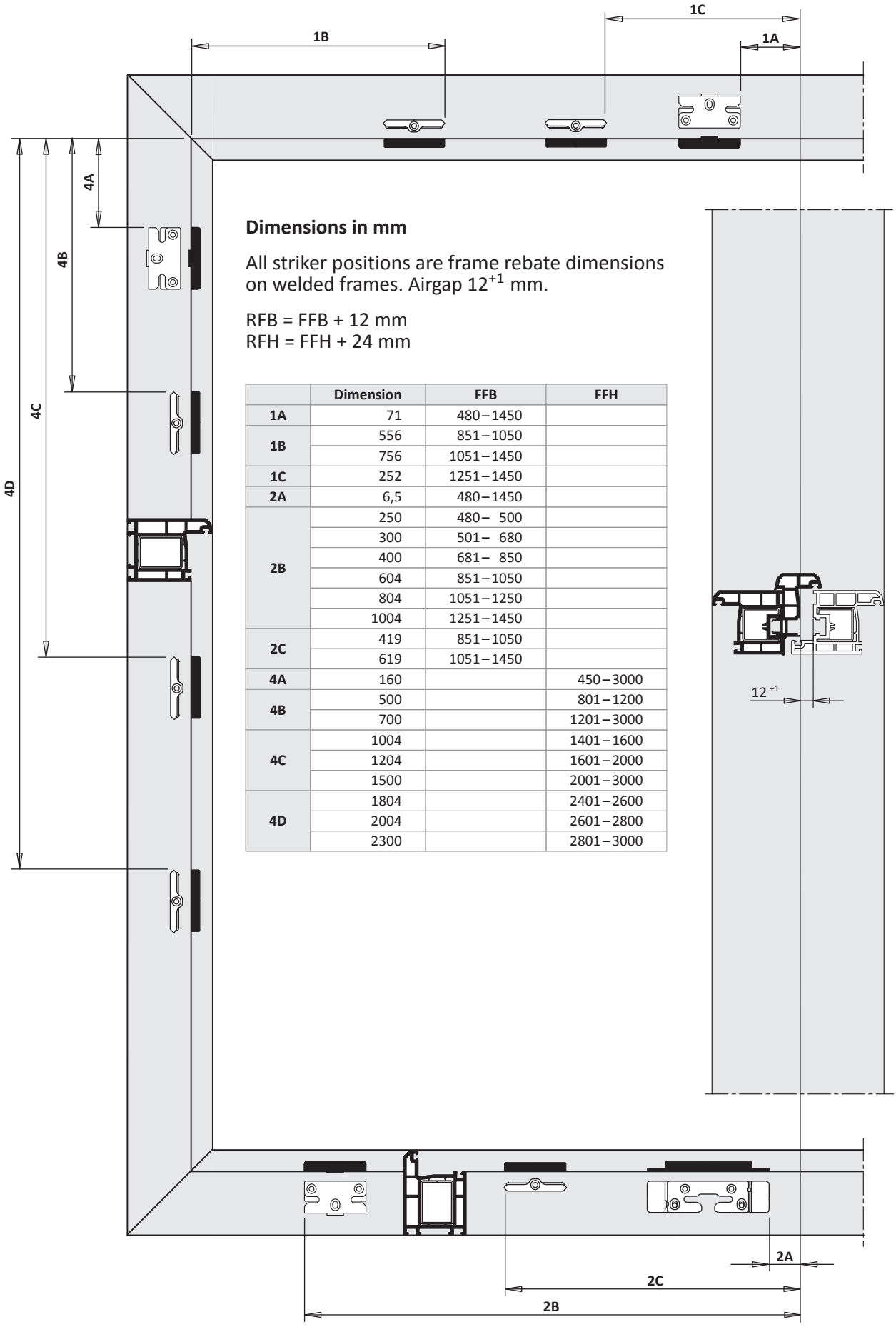
2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							21	22	23
26	snapper rh.	TFST0021- ...	1		1801 – 3000				
	snapper lh.	TFST0022- ...			1801 – 3000				

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
27	corner hinge AX	Ref. PDB, TBEB41		1	1
28	cover cap AX EL	Ref. PDB, TKEL41		1	1
29	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

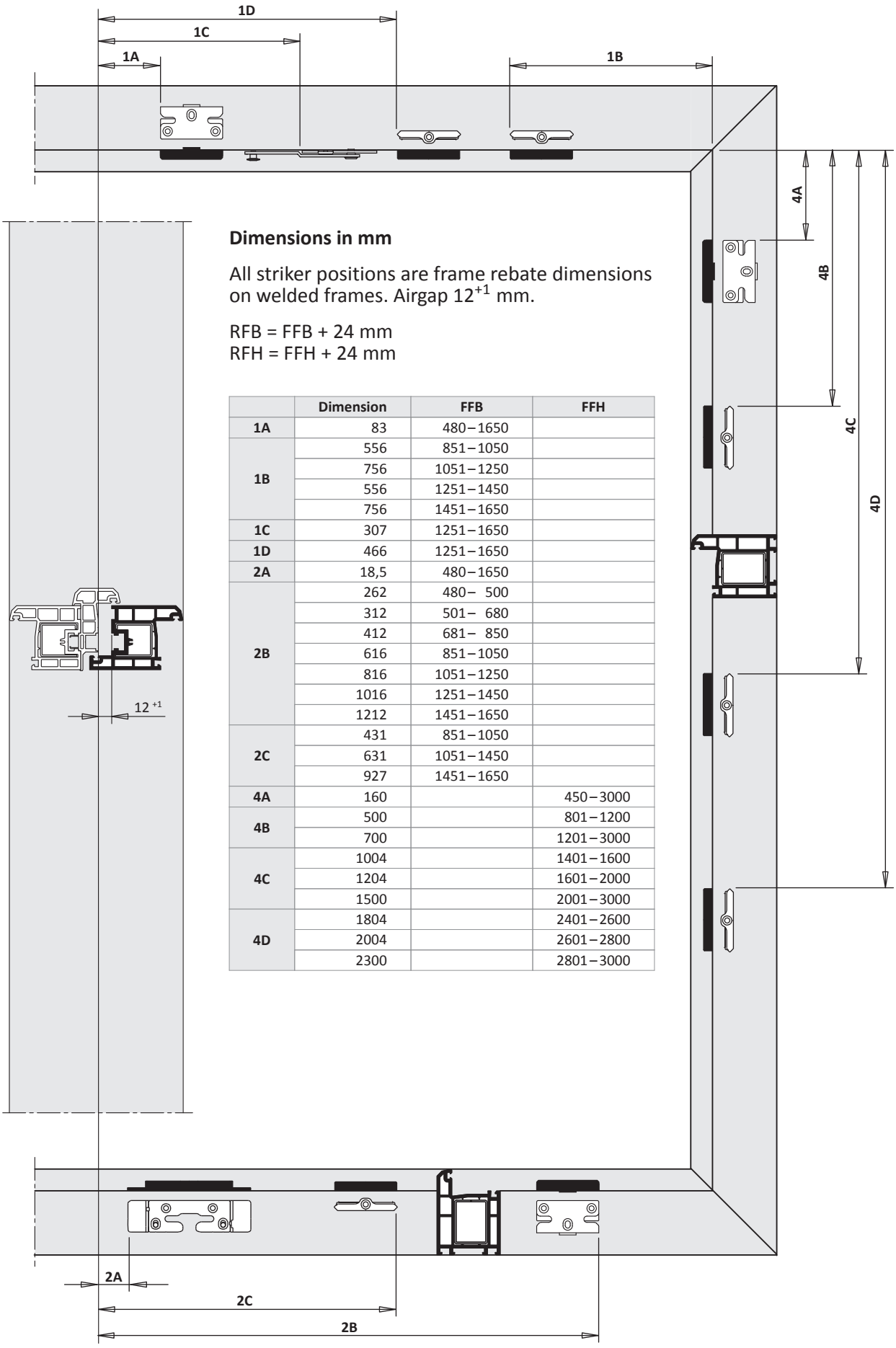
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	480–1450	
1B	556	851–1050	
	756	1051–1450	
1C	252	1251–1450	
2A	6,5	480–1450	
2B	250	480– 500	
	300	501– 680	
	400	681– 850	
	604	851–1050	
	804	1051–1250	
	1004	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		450–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	480–1650	
2B	262	480– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1212	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		450–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions

RC1

1-sash square tilt before turn (TBT)

PVC

RC1

fixed handle position

Hinge side axxent 24+

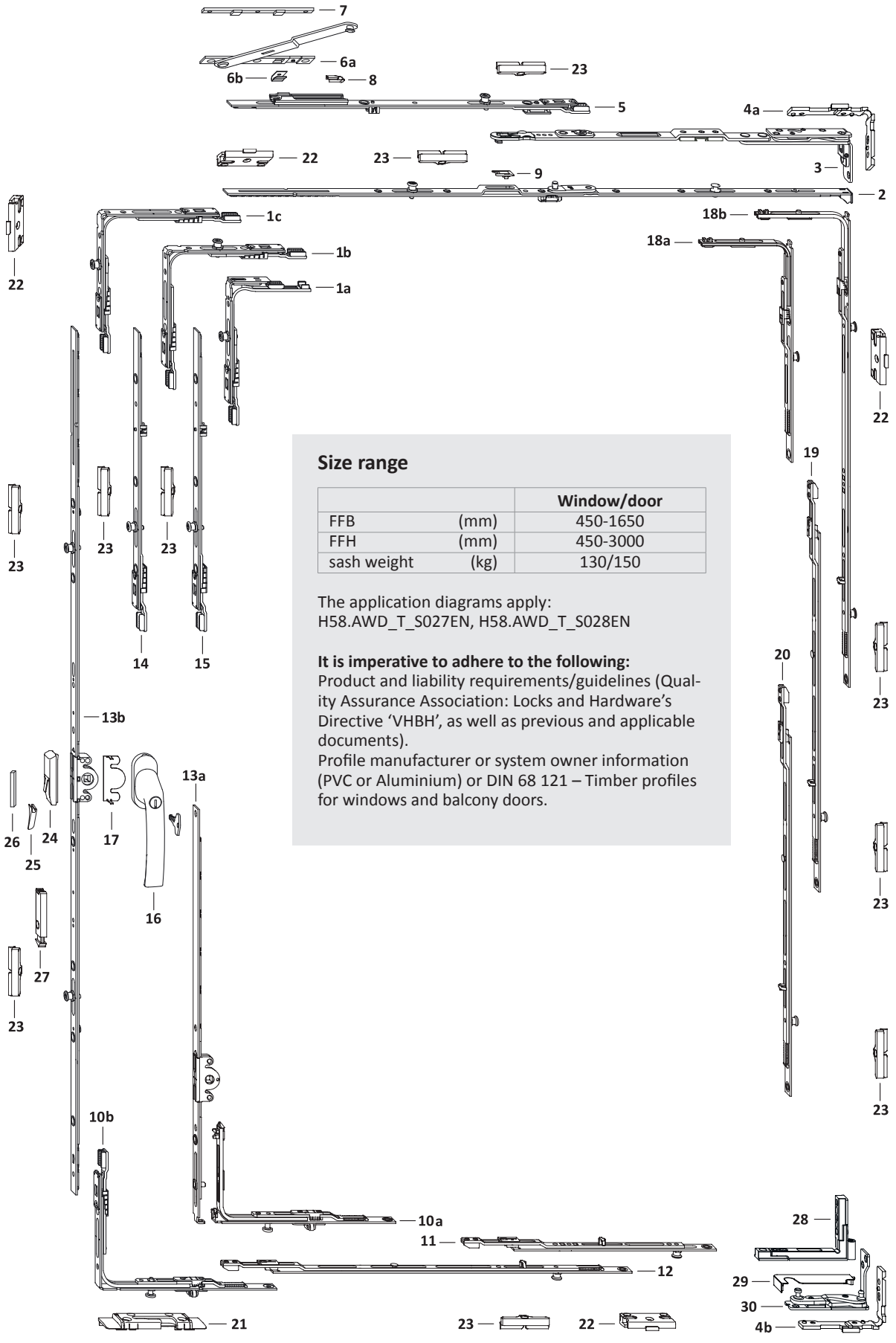
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout

1-sash square tilt before turn (TBT)
PVC GK Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	450-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

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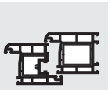


List of fittings

1-sash square tilt before turn (TBT)
PVC GK Hinge side axxent 24+

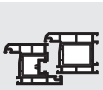
TITAN AF

RC1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							21	22	23
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	450– 480				1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1250				1	
1c	corn.drive VSO 1RS	TEUL4010- ...	1	1251–1650				1	
2	stay sash part AF AX sz 1	TSSV4000- ...	1	450– 680					
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850					
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050					1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250					1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450					1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650					1
3	stay arm AX TBT sz 1	Ref. PDB, TSAV51	1	450– 680					
	stay arm AX TBT sz 2+3	Ref. PDB, TSAV52		681– 850					
	stay arm AX TBT sz 4	Ref. PDB, TSAV54		851–1050					
	stay arm AX TBT sz 5	Ref. PDB, TSAV55		1051–1250					
	stay arm AX TBT sz 4	Ref. PDB, TSAV54		1251–1450					
	stay arm AX TBT sz 5	Ref. PDB, TSAV55		1451–1650					
4	crt. accessories AX	Ref. PDB, TMZV41	1	450–1650					
5	linkage add. stay AF TBT RS	TZOT1010- ...	1	1251–1650					1
6	additional stay	Ref. PDB, TSZS	1	1251–1650					
7	packer Z	Ref. PDB, FRUP01	1	1251–1650					
8	tilt restr. additional stay ..	889008	1	1251–1650					
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	450– 900				
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	450– 900				
10a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	450–1250	450– 600		1		
10b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	450–1650	601–3000		1		
11	extension sz 1+ 1RS	TVSO0200- ...	1	450– 500				1	
	extension sz 2+ 1RS	TVSL0320- ...		501– 680				1	
	extension sz 3+ 1RS	TVSL0330- ...		681– 850				1	
	extension sz 2+ 1RS	TVSL0320- ...		851–1250				1	
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450				1	
	extension sz 3+ 1RS	TVSL0330- ...		1451–1650				1	
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					1
13a	gear 15 sz 30/G180	TGKK3010- ...	1	450–1250	450– 600	180			
13b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300			
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400			1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500			1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600			1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700			1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700			2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000			2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000			2
14	linkage AF sz 1	TZZS0150- ...	1		2201–2400				
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600				1
	linkage AF sz 1	TZZS0150- ...			2601–2800				
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000				1
15	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800				1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000				1
16	handle Globe TBT lockable	Ref.access. ZHGT	1		450–3000				
17	anti-drill guard E	TGBS0010- ...	1		450–3000				
18a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450– 800			1	
18b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			1	1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000				1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000				1
21	tilt lock bear. S-ES FH TBT	Ref. PDB, FRKB							
22	striker plate S-RS	Ref. PDB, TRSK							
23	striker plate S 56	Ref. PDB, TRSM							

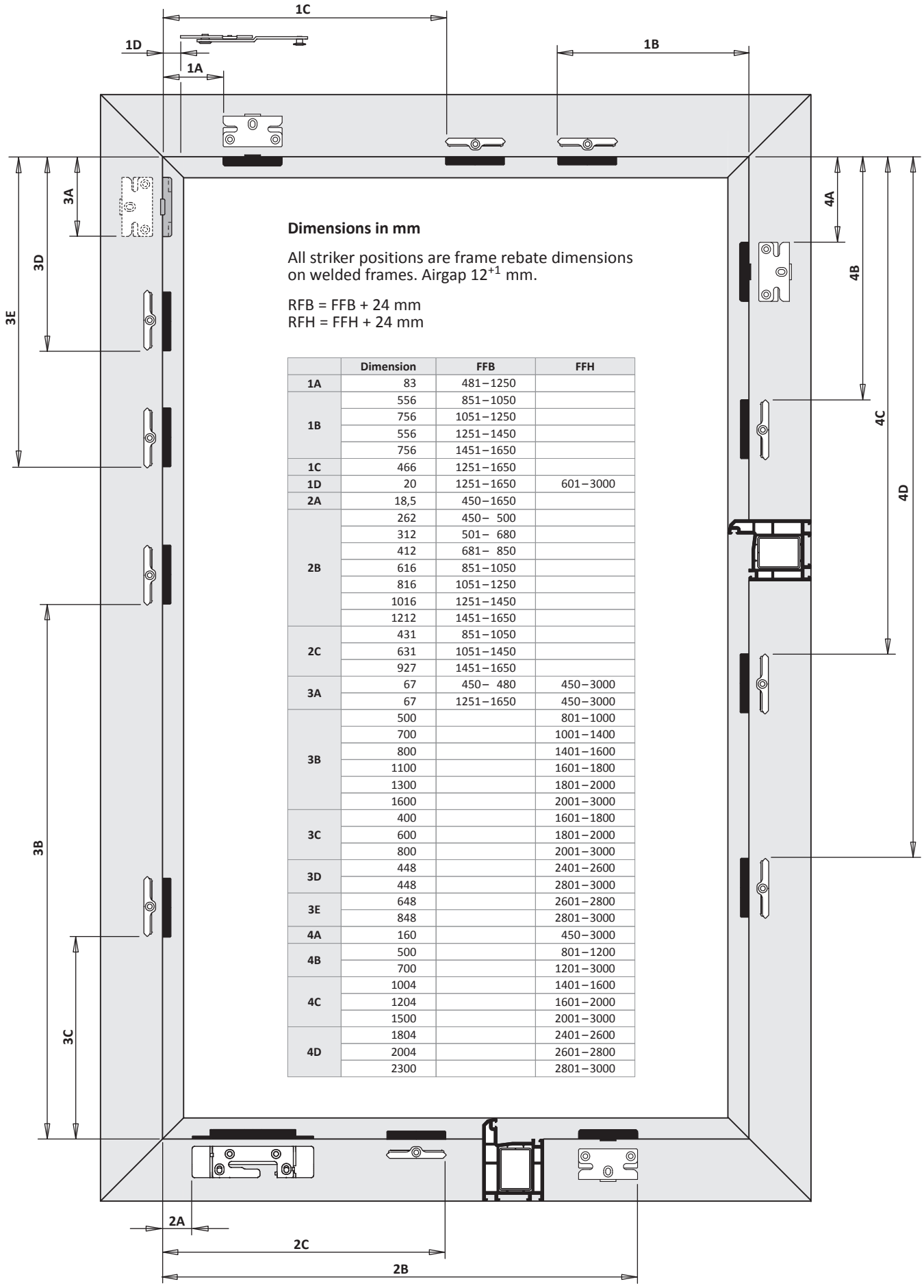
List of fittings

1-sash square tilt before turn (TBT)
PVC GK Hinge side axxent 24+



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							21	22	23
on request									
24	mishandling device	TFBS0010- ...	1						
25	pressure piece	Ref. PDB, TFFD	1						
26	stop	Ref. PDB, FRZF01	1						
27	snapper rh.	TFST0021- ...	1		1801–3000				
	snapper lh.	TFST0022- ...			1801–3000				

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
28	corner hinge AX	Ref. PDB, TBEB41		1	1
29	cover cap AX EL	Ref. PDB, TKEL41		1	1
30	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1250	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	466	1251–1650	
1D	20	1251–1650	601–3000
2A	18,5	450–1650	
2B	262	450– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1212	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	450– 480	450–3000
	67	1251–1650	450–3000
3B	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3C	400		1601–1800
	600		1801–2000
	800		2001–3000
3D	448		2401–2600
	448		2801–3000
3E	648		2601–2800
	848		2801–3000
4A	160		450–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions

RC1

1-sash square tilt-turn

PVC

RC1

fixed handle position

Hinge side axxent 24+

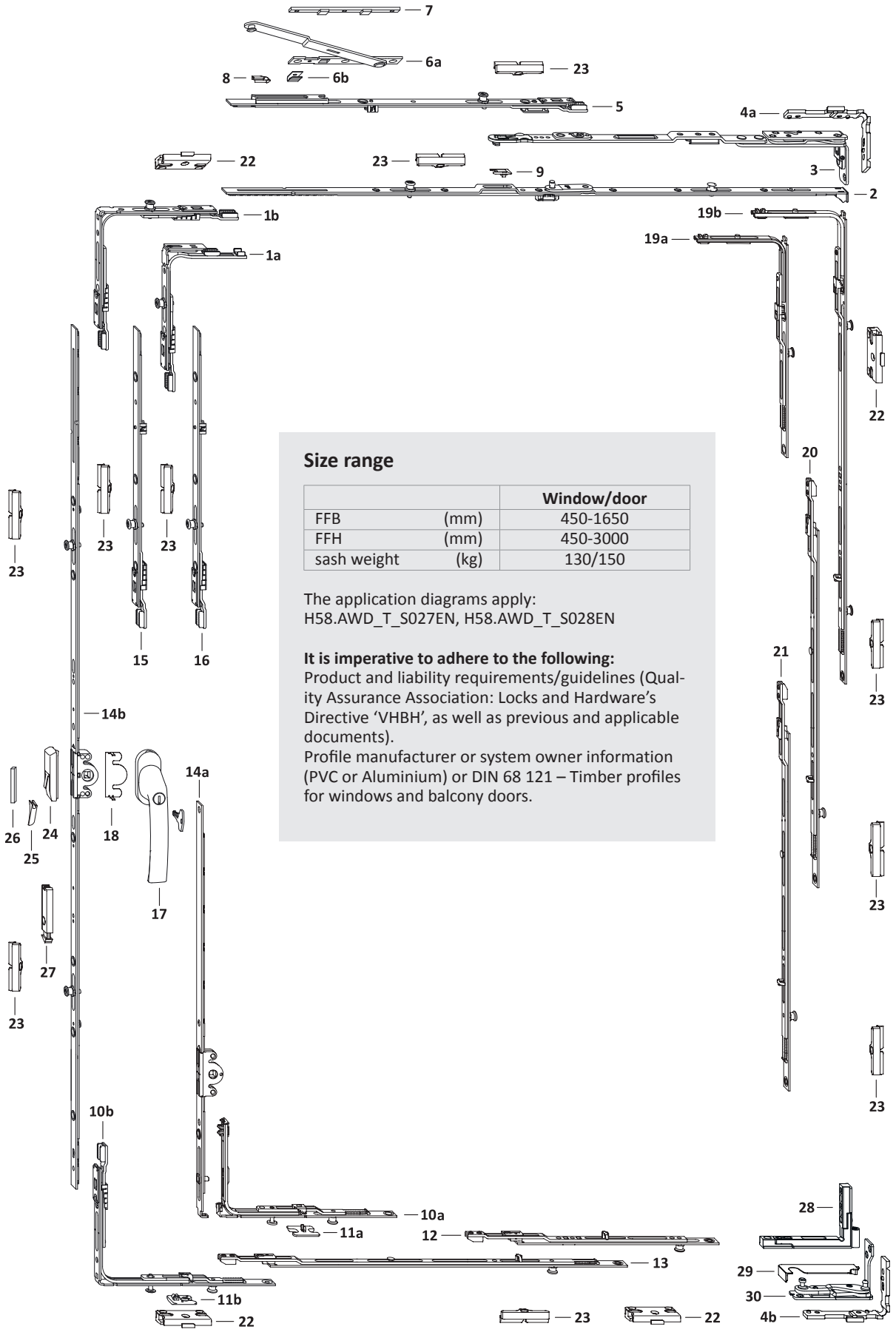
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout

1-sash square tilt-turn
PVC GK Hinge side axxent 24+

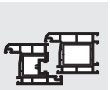


Size range

		Window/door
FFB	(mm)	450-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

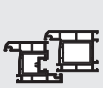
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							22	23
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	450– 480			1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1650			1	
2	stay sash part AF AX sz 1	TSSV4000- ...	1	450– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	450– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	450–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	450– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	450– 900			
10a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	450–1250	450– 600		1	
10b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	450–1650	601–3000		1	
11a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	450–1250	450– 600			
11b	run up block AF 13 mm 13	TFFH0080- ...	1	450–1650	601–3000			
12	extension sz 1+ 1RS	TVSO0200- ...	1	450– 500			1	
	extension sz 2+ 1RS	TVSL0320- ...		501– 680			1	
	extension sz 3+ 1RS	TVSL0330- ...		681– 850			1	
	extension sz 2+ 1RS	TVSL0320- ...		851–1250			1	
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450			1	
	extension sz 3+ 1RS	TVSL0330- ...		1451–1650			1	
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
14a	gear 15 sz 30/G180	TGKK3010- ...	1	450–1250	450– 600	180		
14b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		2
15	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			1
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
16	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
17	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		450–3000			
18	anti-drill guard E	TGBS0010- ...	1		450–3000			
19a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450– 800		1	
19b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		1	1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
21	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
22	striker plate S-RS	Ref. PDB, TRSK						
23	striker plate S 56	Ref. PDB, TRSM						

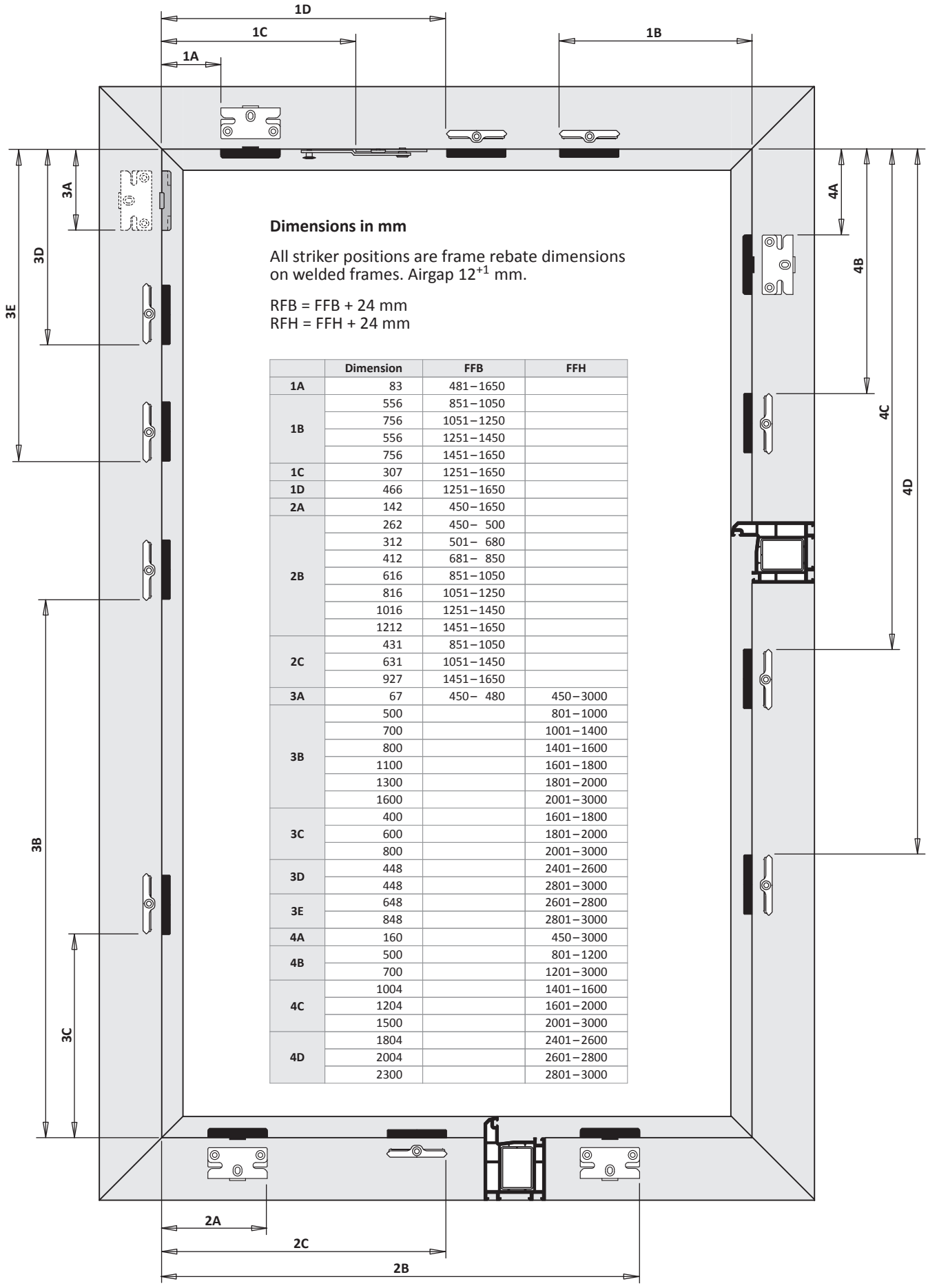
List of fittings

1-sash square tilt-turn
PVC GK Hinge side axxent 24+



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							22	23
on request								
24	mishandling device	TFBS0010- ...	1					
25	pressure piece	Ref. PDB, TFFD	1					
26	stop	Ref. PDB, FRZF01	1					
27	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
28	corner hinge AX	Ref. PDB, TBEB41		1	1
29	cover cap AX EL	Ref. PDB, TKEL41		1	1
30	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

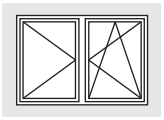
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	450–1650	
2B	262	450– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1212	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	450– 480	450–3000
3B	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3C	400		1601–1800
	600		1801–2000
	800		2001–3000
3D	448		2401–2600
	448		2801–3000
3E	648		2601–2800
	848		2801–3000
4A	160		450–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



RC1

2-sash square tilt-turn/turn DS 16

PVC

RC1

fixed handle position

Hinge side axxent 24+

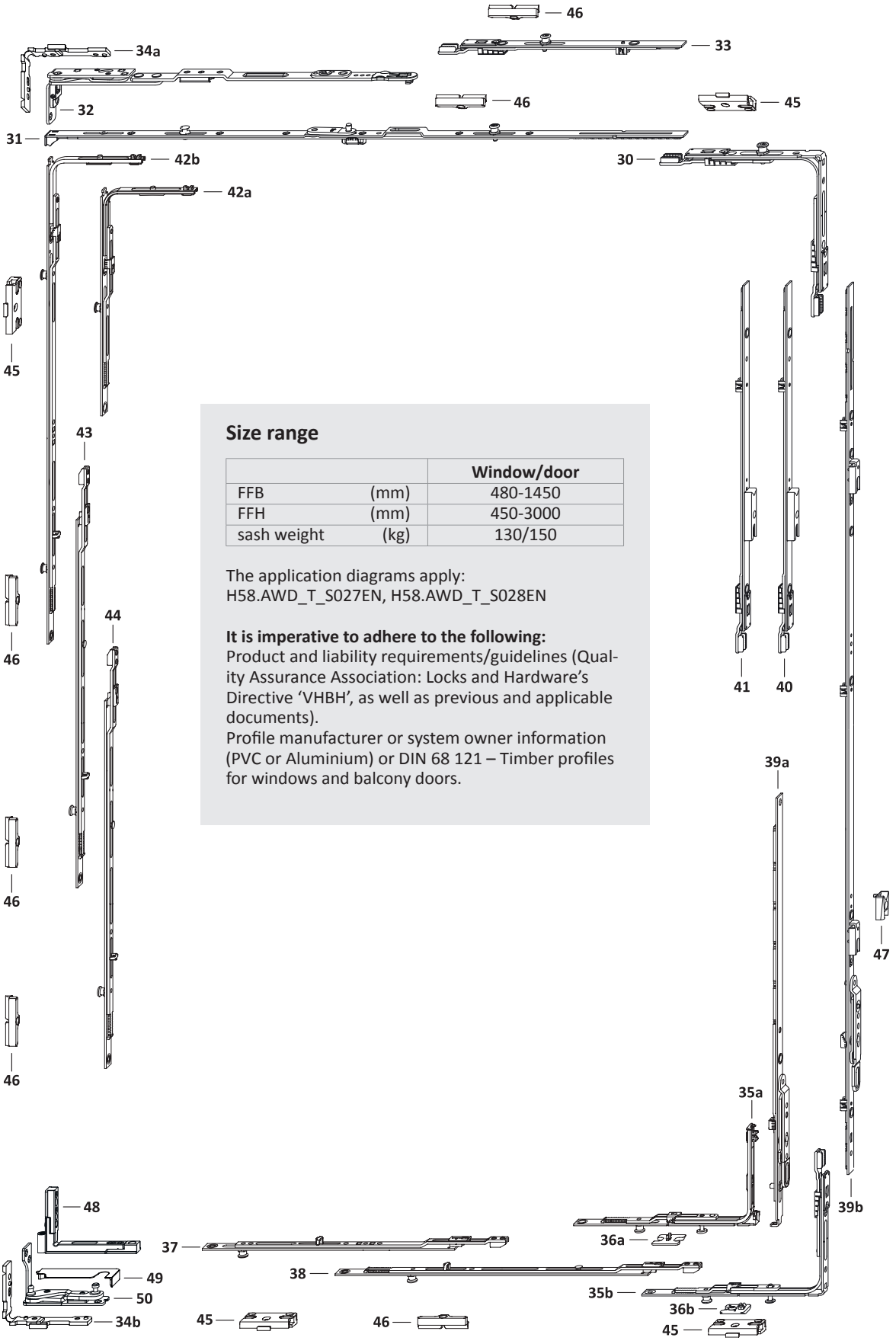
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+

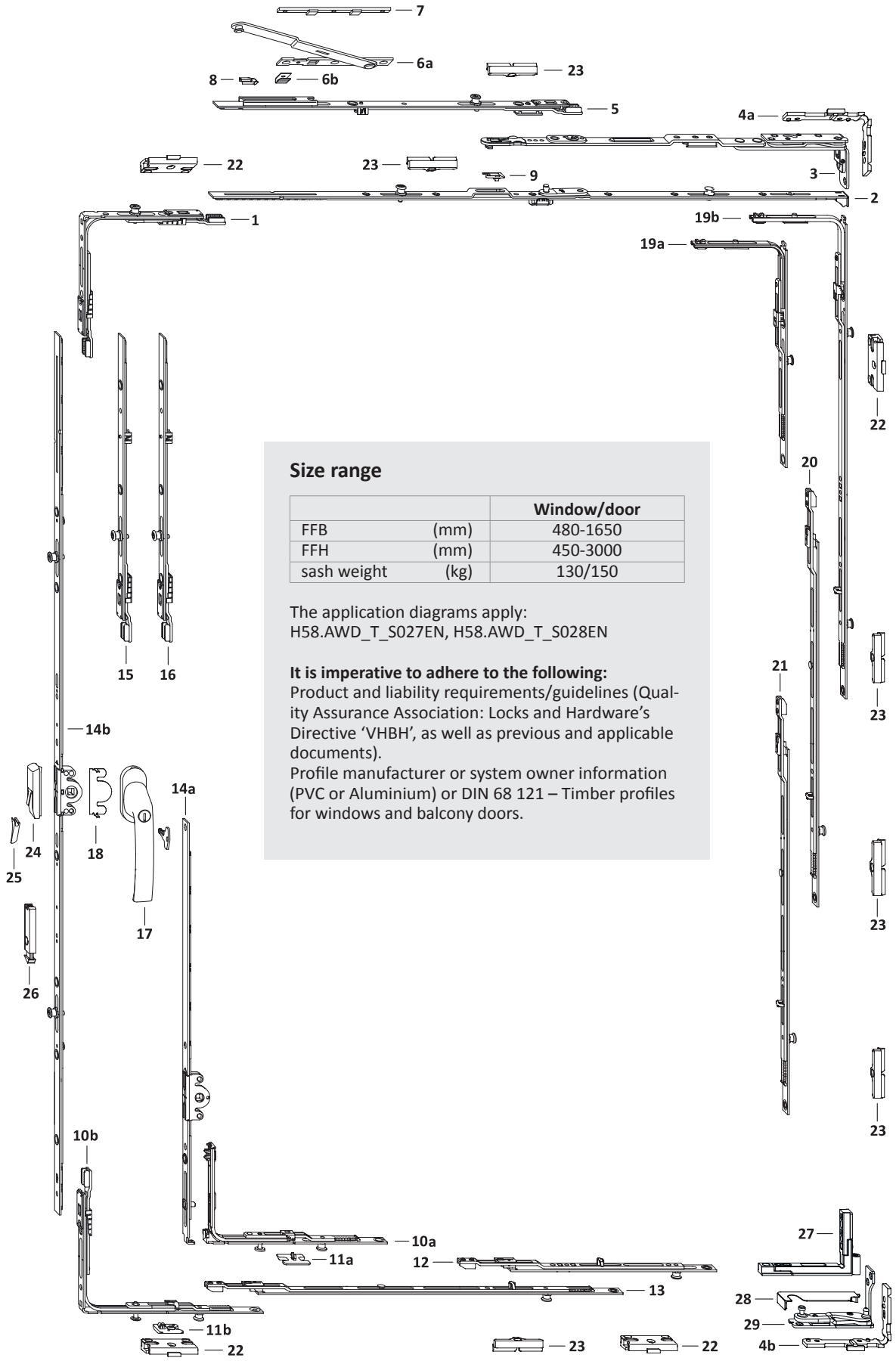


Size range

		Window/door
FFB	(mm)	480-1450
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

		Window/door
FFB	(mm)	480-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
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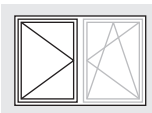
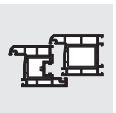
List of fittings slave sash

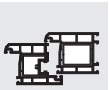
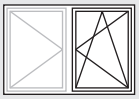
2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	45	46
30	corn.drive VSO 1RS	TEUL4010- ...	1	480–1450			1	
31	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1450				1
32	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1450				
33	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
34	crt. accessories AX	Ref. PDB, TMZV41	1	480–1450				
35a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480–1450	450– 800		1	
35b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480–1450	801–3000		1	
36a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480–1450	450– 800			
36b	run up block AF 13 mm 13	TFFH0080- ...	1	480–1450	801–3000			
37	extension sz 1+ 1RS	TVSO0200- ...	1	480– 500			1	
	extension sz 2+ 1RS	TVSL0320- ...		501– 680			1	
	extension sz 3+ 1RS	TVSL0330- ...		681– 850			1	
	extension sz 2+ 1RS	TVSL0320- ...		851–1250			1	
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450			1	
38	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
39a	sec.sash gear 16 sz 30	TGKS0010- ...	1	480–1250	450– 600	180		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300		
39b	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400		
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500		
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600		
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401–1600	700		
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700		
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000		
	sec.sash gear 16AF200/G10002SB	TGKS4110- ...			2001–3000	1000		
40	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2401–2600			
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
41	linkage AF sz 2 1SB-RS	TZKS1030- ...	1		2601–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
42a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450– 800		1	
42b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		1	1
43	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
44	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
45	striker plate S-RS	Ref. PDB, TRSK						
46	striker plate S 56	Ref. PDB, TRSM						
on request								
47	striker snapper AF A0767	TRST0100- ...	1		1801–3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
48	corner hinge AX	Ref. PDB, TBEB41		1	1
49	cover cap AX EL	Ref. PDB, TKEL41		1	1
50	bottom hinge AX	Ref. PDB, TBEV41		1	1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+

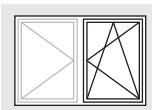
TITAN AF

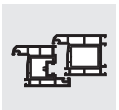
RC1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							22	23
1	corn.drive VSO 1RS	TEUL4010- ...	1	480–1650			1	
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	480–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	450– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	450– 900			
10a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480–1250	450– 600		1	
10b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480–1650	601–3000		1	
11a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480–1250	450– 600			
11b	run up block AF 13 mm 13	TFFH0080- ...	1	480–1650	601–3000			
12	extension sz 1+ 1RS	TVSO0200- ...	1	480– 500			1	
	extension sz 2+ 1RS	TVSL0320- ...		501– 680			1	
	extension sz 3+ 1RS	TVSL0330- ...		681– 850			1	
	extension sz 2+ 1RS	TVSL0320- ...		851–1250			1	
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450			1	
	extension sz 3+ 1RS	TVSL0330- ...		1451–1650			1	
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
14a	gear 15 sz 30/G180	TGKK3010- ...	1	480–1250	450– 600	180		
14b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		
15	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
16	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
17	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		450–3000			
18	anti-drill guard E	TGBS0010- ...	1		450–3000			
19a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450– 800		1	
19b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		1	1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
21	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
22	striker plate S-RS	Ref. PDB, TRSK						
23	striker plate S 56	Ref. PDB, TRSM						
on request								
24	mishandling device	TFBS0010- ...	1		601–3000			

List of fittings main sash

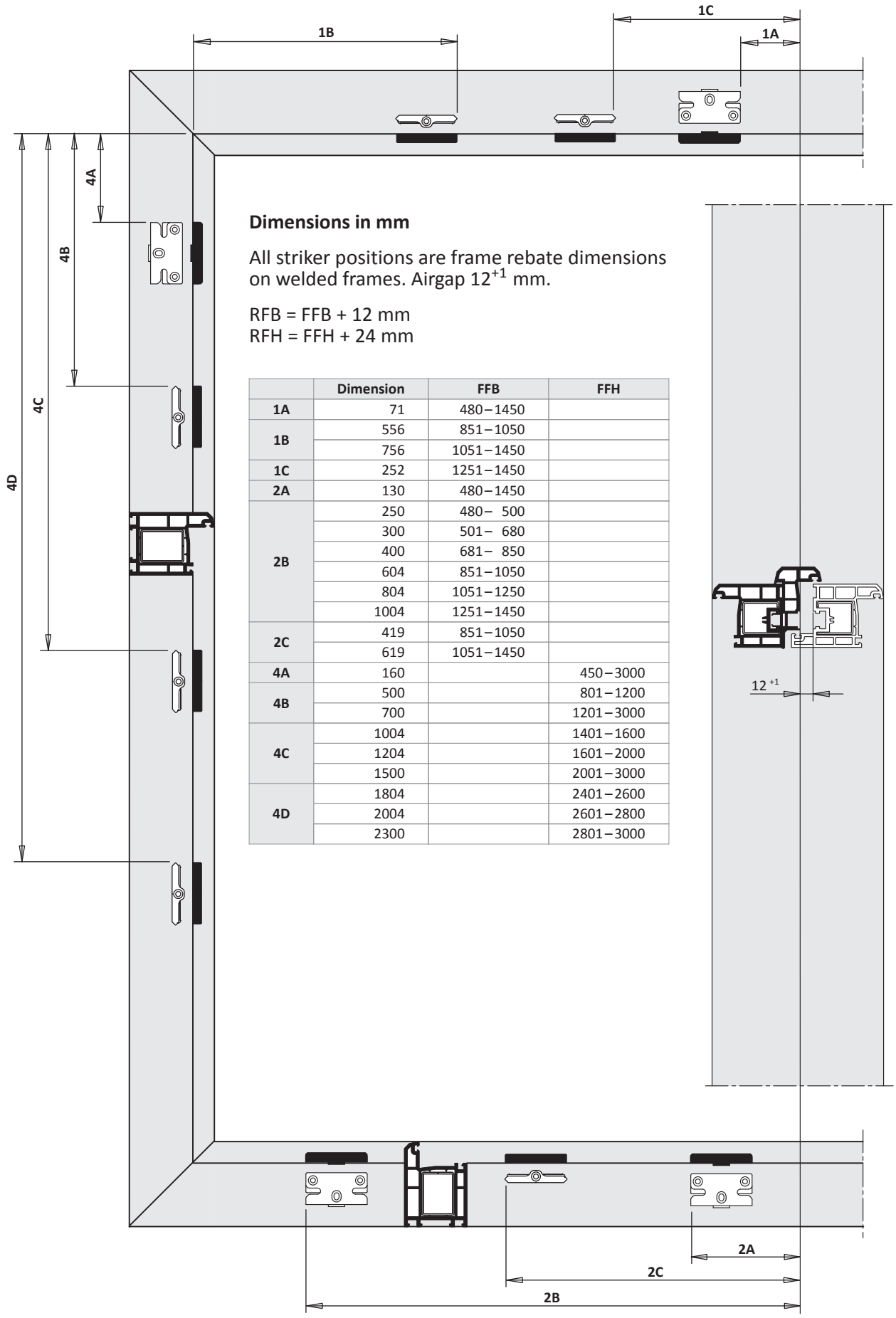
2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							22	23
25	pressure piece	Ref. PDB, TFFD	1		601 – 3000			
26	snapper rh.	TFST0021- ...	1		1801 – 3000			
	snapper lh.	TFST0022- ...			1801 – 3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
27	corner hinge AX	Ref. PDB, TBEB41		1	1
28	cover cap AX EL	Ref. PDB, TKEL41		1	1
29	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

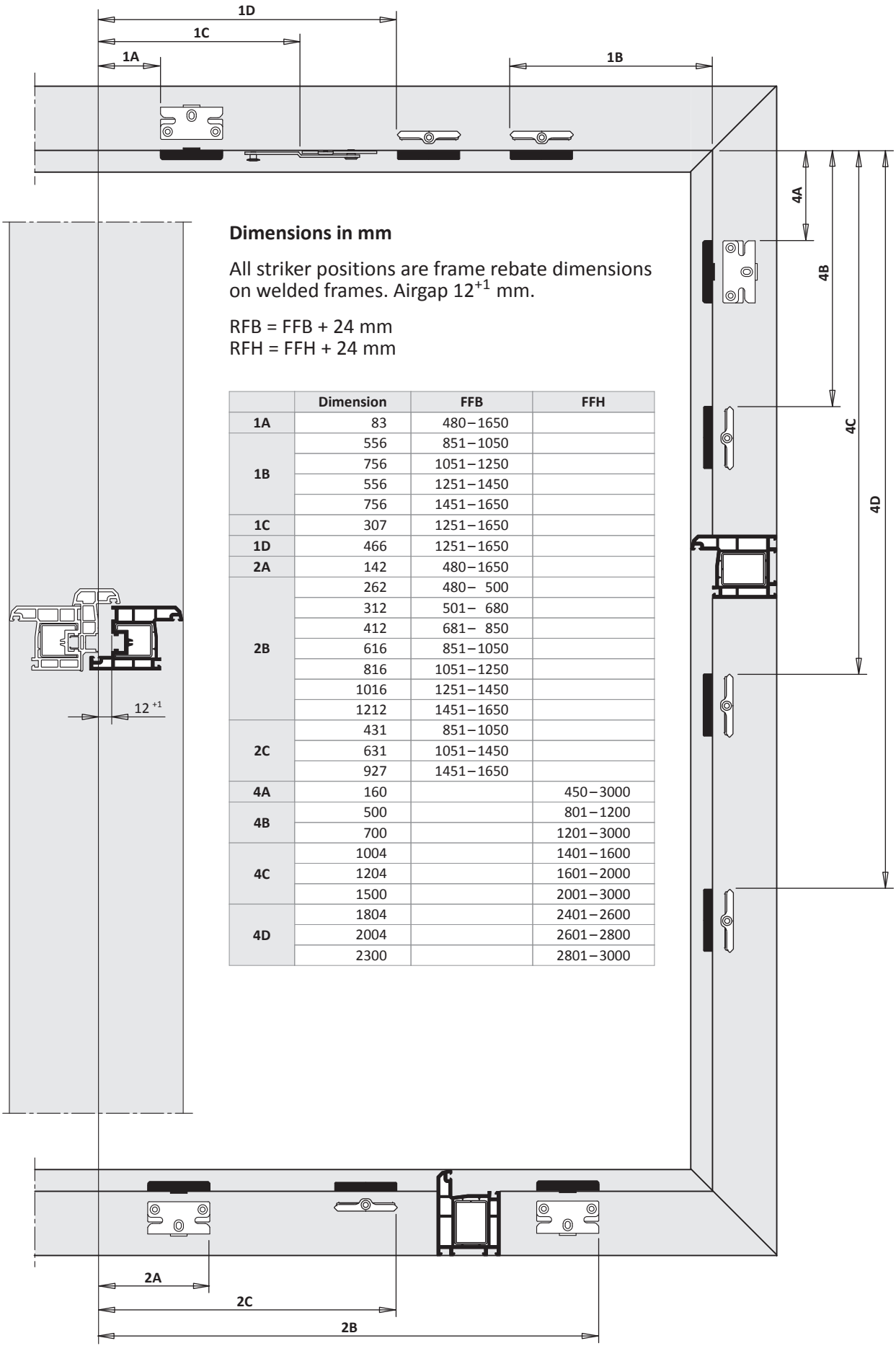
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	480–1450	
1B	556	851–1050	
	756	1051–1450	
1C	252	1251–1450	
2A	130	480–1450	
2B	250	480– 500	
	300	501– 680	
	400	681– 850	
	604	851–1050	
	804	1051–1250	
	1004	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		450–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	480–1650	
2B	262	480– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1212	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		450–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions

RC1

1-sash square tilt-turn

PVC

RC1

fixed handle position

Hinge side axxent 24+

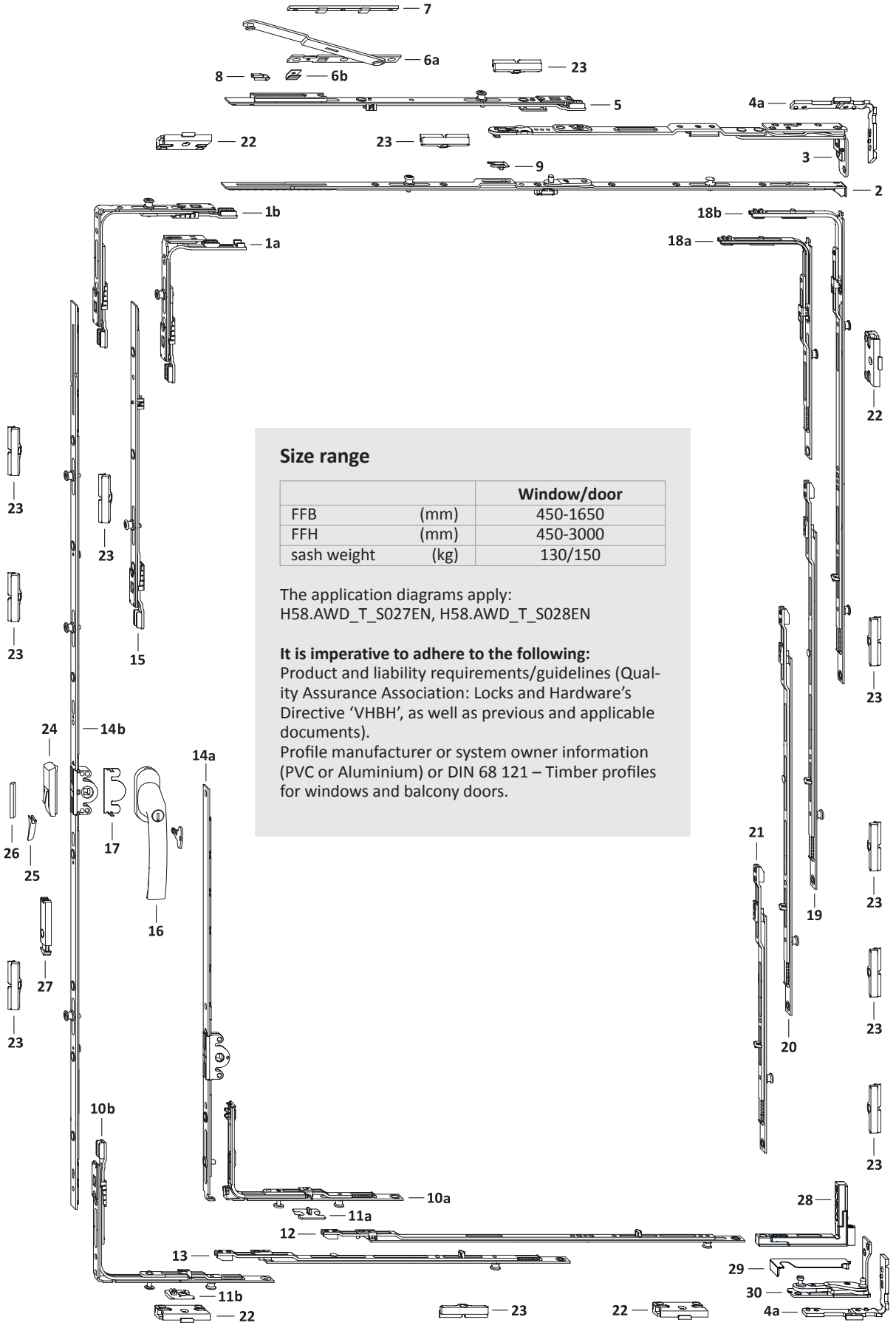
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout

1-sash square tilt-turn
PVC GK Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	450-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

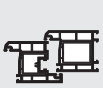
The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							22	23
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	450– 480			1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1650			1	
2	stay sash part AF AX sz 1	TSSV4000- ...	1	450– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 750				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751– 850				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	450– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	450–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	450– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	450– 900			
10a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	450–1250	450– 600		1	
10b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	450–1650	601–3000		1	
11a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	450–1650	450– 600			
11b	run up block AF 13 mm 13	TFFH0080- ...	1	450–1650	601–3000			
12	extension sz 1+ 1RS	TVSO0200- ...	1	450– 500			1	
	extension sz 2+ 1RS	TVSL0320- ...		501– 680			1	
	extension sz 3+ 1RS	TVSL0330- ...		681– 850			1	
	extension sz 2+ 1RS	TVSL0320- ...		851–1050			1	
	extension sz 2+ 1RS	TVSL0320- ...		1051–1250			1	
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450			1	
	extension sz 6+ 1RS	TVSL0360- ...		1451–1650			1	
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
14a	gear 15 sz 30/G180	TGKK3010- ...	1	450–1250	450– 600	180		
14b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 700	300		
	gear 15 AF sz 70/G300 1RS	TGKK4040- ...			701– 800	300		1
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		1
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401–1600	700		2
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		2
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001–2200	1000		3
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201–3000	1000		3
15	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401–2600			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601–2800			1
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801–3000			1
16	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		450–3000			
17	anti-drill guard E	TGBS0010- ...	1		450–3000			
18a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450– 800		1	
18b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		1	1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
21	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
22	striker plate S-RS	Ref. PDB, TRSK						
23	striker plate S 56	Ref. PDB, TRSM						

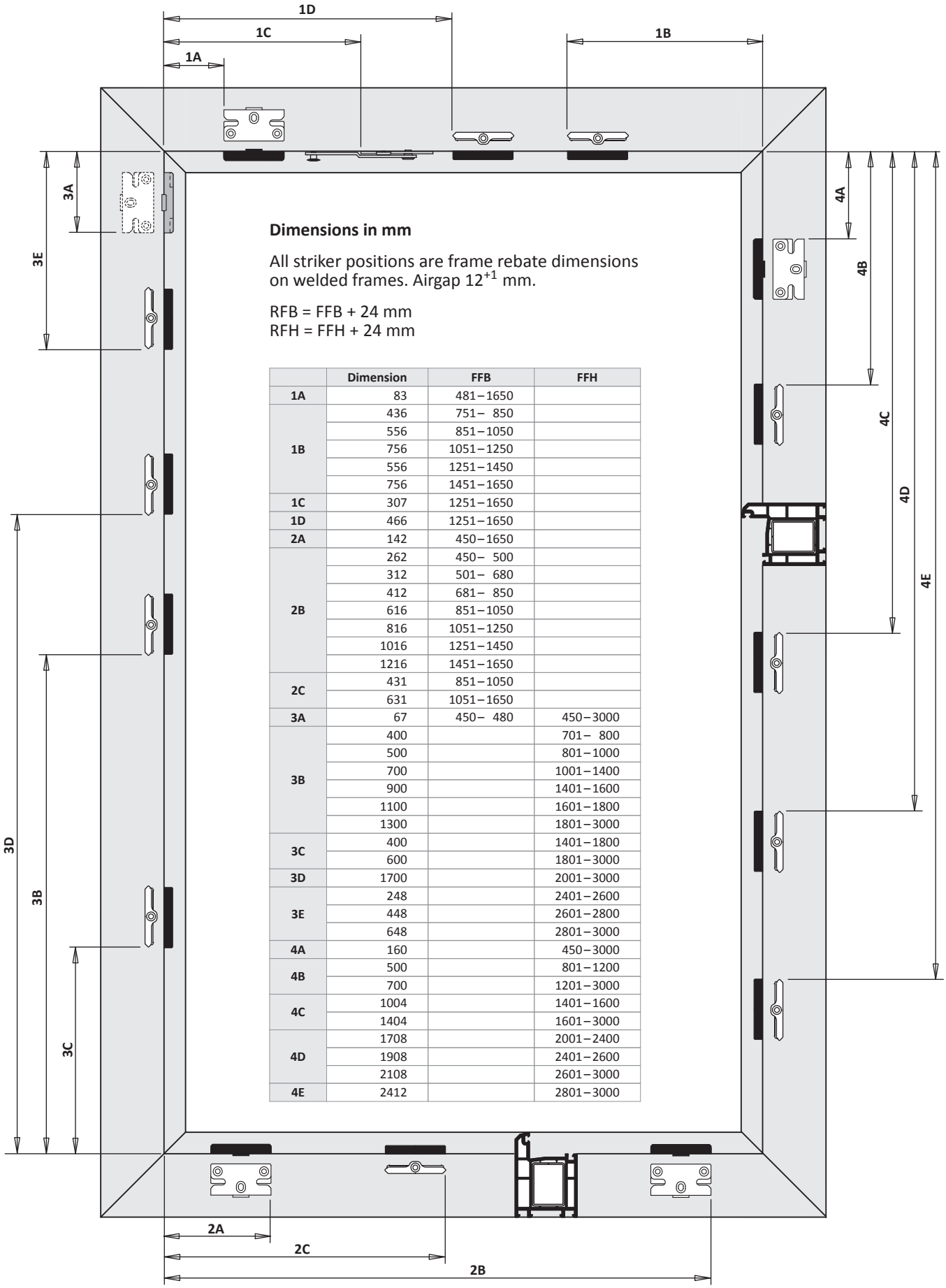
List of fittings

1-sash square tilt-turn
PVC GK Hinge side axxent 24+



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							22	23
on request								
24	mishandling device	TFBS0010- ...	1					
25	pressure piece	Ref. PDB, TFFD	1					
26	stop	Ref. PDB, FRZF01	1					
27	snapper rh.	TFST0021- ...	1		1801–3000			
	snapper lh.	TFST0022- ...			1801–3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
28	corner hinge AX	Ref. PDB, TBEB41		1	1
29	cover cap AX EL	Ref. PDB, TKEL41		1	1
30	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

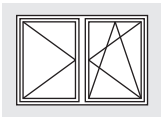
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

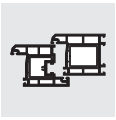
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	436	751– 850	
	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	450–1650	
2B	262	450– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1216	1451–1650	
2C	431	851–1050	
	631	1051–1650	
3A	67	450– 480	450–3000
3B	400		701– 800
	500		801–1000
	700		1001–1400
	900		1401–1600
	1100		1601–1800
	1300		1801–3000
3C	400		1401–1800
	600		1801–3000
3D	1700		2001–3000
3E	248		2401–2600
	448		2601–2800
	648		2801–3000
4A	160		450–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

TITAN AF

Installation instructions





RC1

2-sash square tilt-turn/turn DS 16

PVC

RC1

fixed handle position

Hinge side axxent 24+

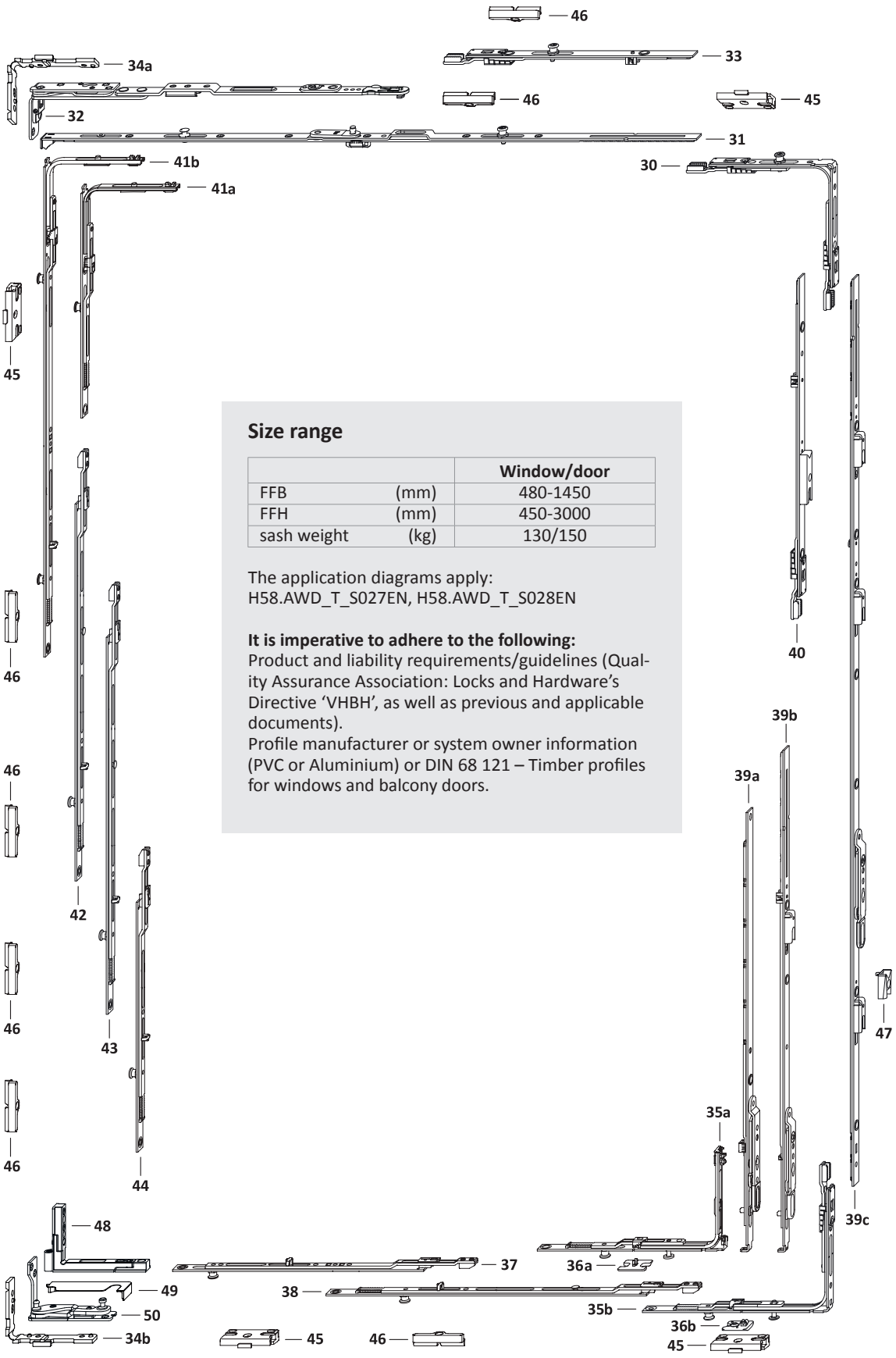
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	480-1450
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

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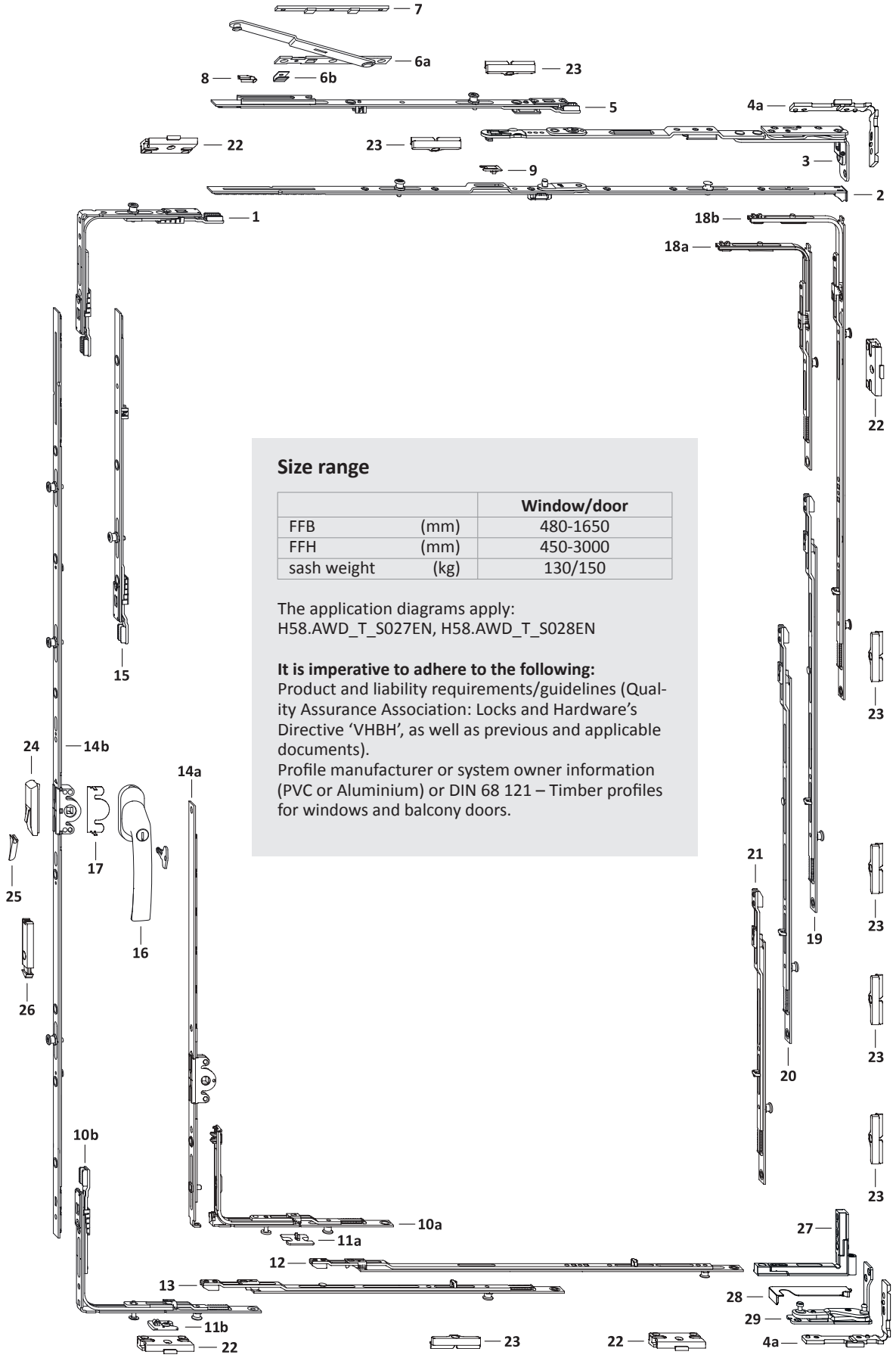


Size range

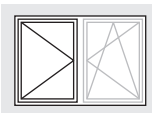
		Window/door
FFB	(mm)	480-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

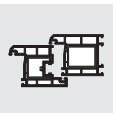
The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

List of fittings slave sash

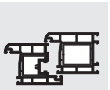
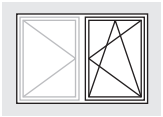
2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	45	46
30	corn.drive VSO 1RS	TEUL4010- ...	1	480–1450			1	
31	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 750				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751– 850				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1450				1
32	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1450				
33	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
34	crt. accessories AX	Ref. PDB, TMZV41	1	480–1450				
35a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480–1450	450– 800		1	
35b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480–1450	801–3000		1	
36a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480–1450	450– 800			
36b	run up block AF 13 mm 13	TFFH0080- ...	1	480–1450	801–3000			
37	extension sz 1+ 1RS	TVSO0200- ...	1	480– 500			1	
	extension sz 2+ 1RS	TVSL0320- ...		501– 680			1	
	extension sz 3+ 1RS	TVSL0330- ...		681– 850			1	
	extension sz 2+ 1RS	TVSL0320- ...		851–1050			1	
	extension sz 2+ 1RS	TVSL0320- ...		1051–1250			1	
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450			1	
38	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
39a	sec.sash gear 16 sz 30	TGKS0010- ...	1	480–1250	450– 600	180		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300		
39b	sec.sash gear 16 AF70/G300 1SB	TGKS4040- ...	1		701– 800	300		
39c	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400		
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500		
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600		
	sec.sash gear 16 AF140/G700 2S 70	TGKS4290- ...			1401–1600	700		
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700		
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000		
	sec.sash gear 16 AF200/G1000 3 70	TGKS4280- ...			2001–2200	1000		
	sec.sash gear 16 AF220/G1000 3 70	TGKS4320- ...			2201–3000	1000		
40	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2600			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2601–2800			
	linkage AF sz 3 1SB-RS	TZKS1080- ...			2801–3000			
41a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450– 800		1	
41b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		1	1
42	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
43	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
44	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
45	striker plate S-RS	Ref. PDB, TRSK						
46	striker plate S 56	Ref. PDB, TRSM						
on request								
47	striker snapper AF A0767	TRST0100- ...	1		1801–3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
48	corner hinge AX	Ref. PDB, TBEB41		1	1
49	cover cap AX EL	Ref. PDB, TKEL41		1	1
50	bottom hinge AX	Ref. PDB, TBEV41		1	1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+

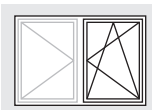
TITAN AF

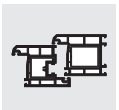
RC1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							22	23
1	corn.drive VSO 1RS	TEUL4010- ...	1	480–1650			1	
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 750				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751– 850				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	480–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	450– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	450– 900			
10a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480–1250	450– 600		1	
10b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480–1650	601–3000		1	
11a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480–1250	450– 600			
11b	run up block AF 13 mm 13	TFFH0080- ...	1	480–1650	601–3000			
12	extension sz 1+ 1RS	TVSO0200- ...	1	480– 500			1	
	extension sz 2+ 1RS	TVSL0320- ...		501– 680			1	
	extension sz 3+ 1RS	TVSL0330- ...		681– 850			1	
	extension sz 2+ 1RS	TVSL0320- ...		851–1050			1	
	extension sz 2+ 1RS	TVSL0320- ...		1051–1250			1	
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450			1	
	extension sz 6+ 1RS	TVSL0360- ...		1451–1650			1	
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
14a	gear 15 sz 30/G180	TGKK3010- ...	1	480–1250	450– 600	180		
14b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 700	300		
	gear 15 AF sz 70/G300 1RS	TGKK4040- ...			701– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401–1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001–2200	1000		
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201–3000	1000		
15	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401–2600			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601–2800			
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801–3000			
16	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		450–3000			
17	anti-drill guard E	TGBS0010- ...	1		450–3000			
18a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450– 800		1	
18b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		1	1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
21	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
22	striker plate S-RS	Ref. PDB, TRSK						
23	striker plate S 56	Ref. PDB, TRSM						
	on request							
24	mishandling device	TFBS0010- ...	1		601–3000			

List of fittings main sash

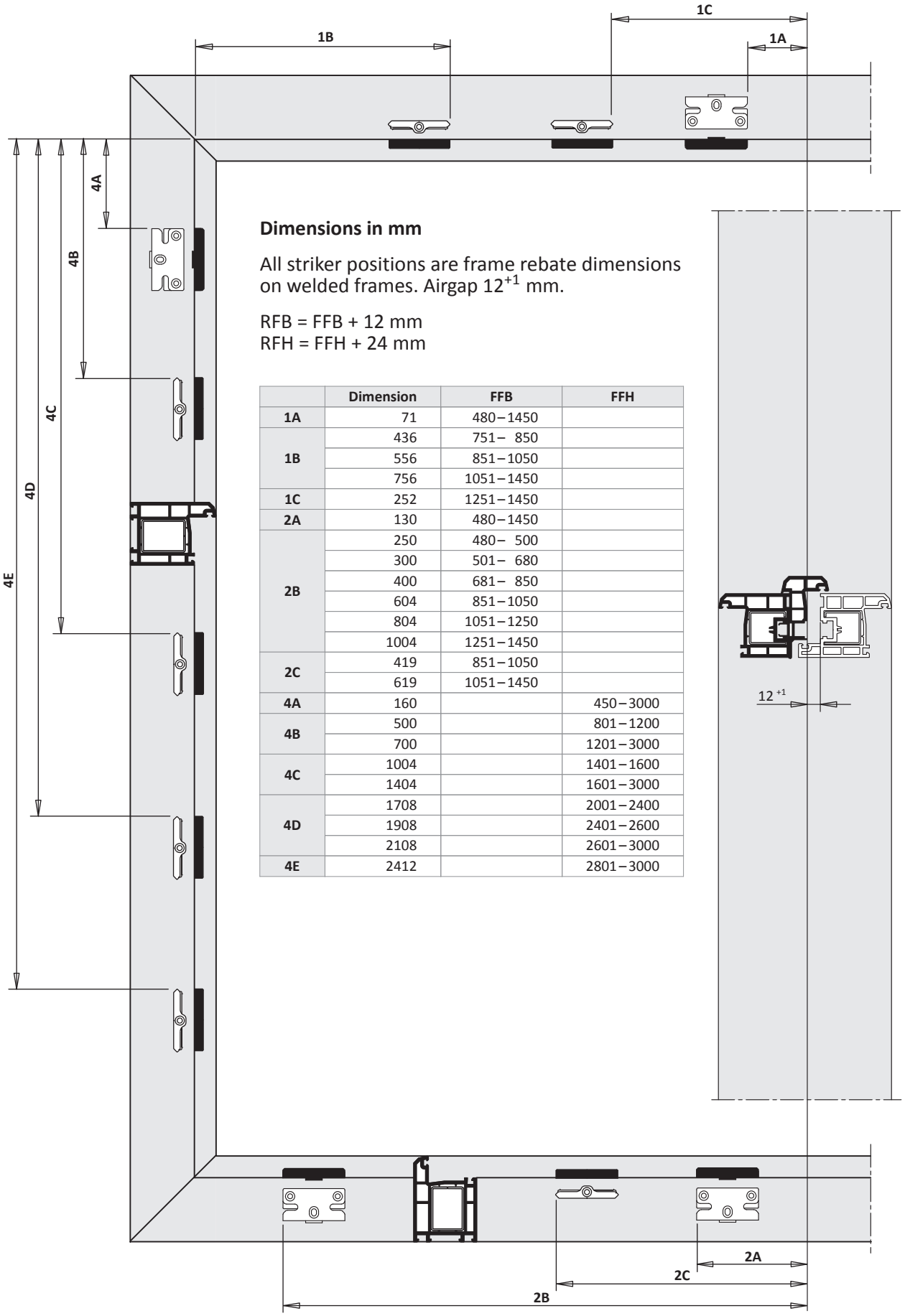
2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							22	23
25	pressure piece	Ref. PDB, TFFD	1		601 – 3000			
26	snapper rh.	TFST0021- ...	1		1801 – 3000			
	snapper lh.	TFST0022- ...			1801 – 3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
27	corner hinge AX	Ref. PDB, TBEB41		1	1
28	cover cap AX EL	Ref. PDB, TKEL41		1	1
29	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

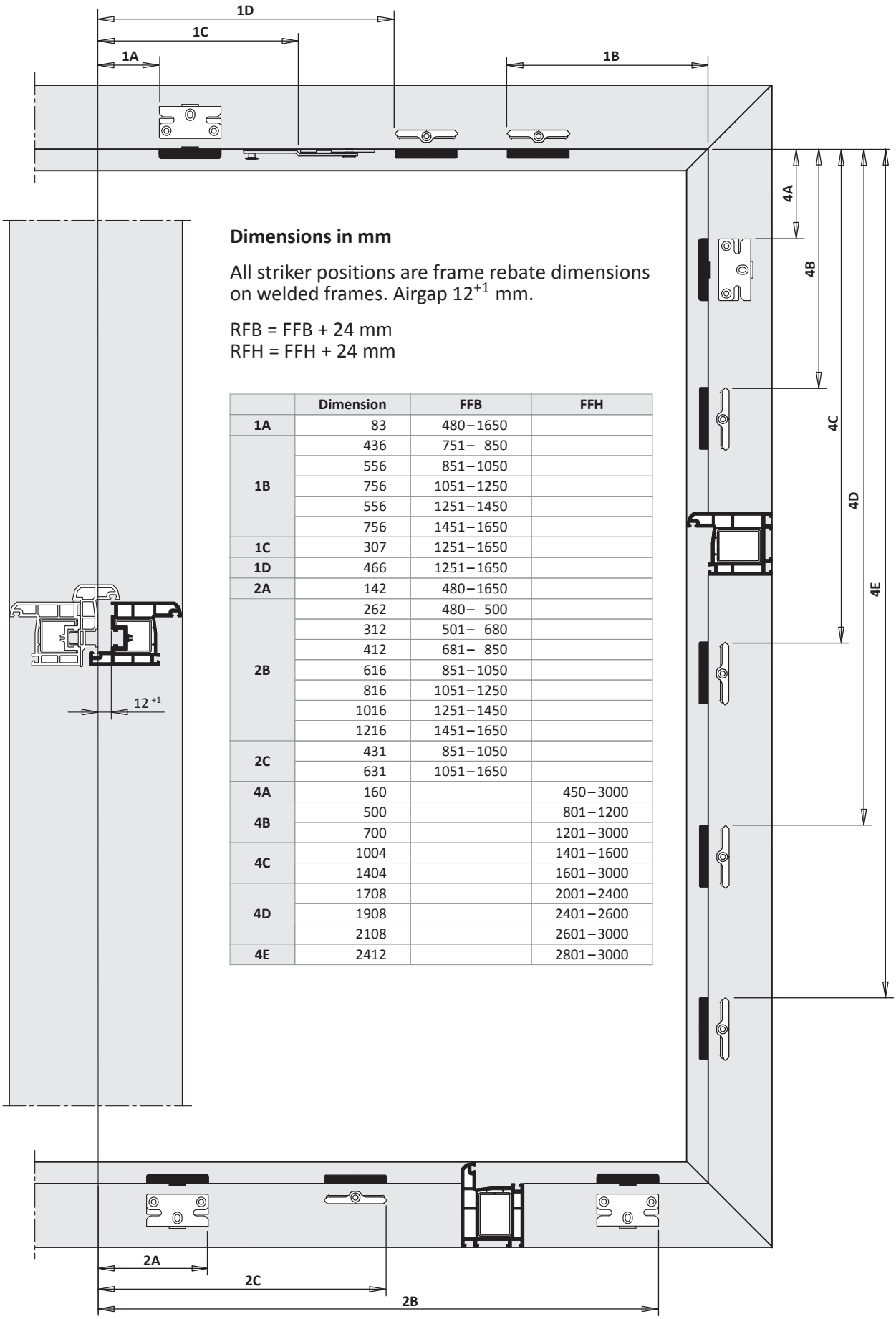
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	480–1450	
1B	436	751– 850	
	556	851–1050	
	756	1051–1450	
1C	252	1251–1450	
2A	130	480–1450	
2B	250	480– 500	
	300	501– 680	
	400	681– 850	
	604	851–1050	
	804	1051–1250	
	1004	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		450–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	436	751– 850	
	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	480–1650	
2B	262	480– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1216	1451–1650	
2C	431	851–1050	
	631	1051–1650	
4A	160		450–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

Bottom inliner

1-sash square tilt-turn H48.TAFKFM1S018EN 5 - 3

2-sash square tilt-turn/turn DS 16 H48.TAFKFM1S019EN 5 - 9

Tilt before turn (TBT)

1-sash square tilt before turn (TBT) H48.TAFKFM1S020EN 5 - 17

Bottom double cam SB R-RS

1-sash square tilt-turn H48.TAFKFM1S403EN 5 - 23

2-sash square tilt-turn/turn DS 16 H48.TAFKFM1S404EN 5 - 29

Locking-points distance 700

1-sash square tilt-turn H48.TAFKFM1S303EN 5 - 37

2-sash square tilt-turn/turn DS 16 H48.TAFKFM1S304EN 5 - 43

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Installation instructions

RC1

1-sash square tilt-turn

PVC

RC1

centre handle pos. (variable)

Hinge side axxent 24+

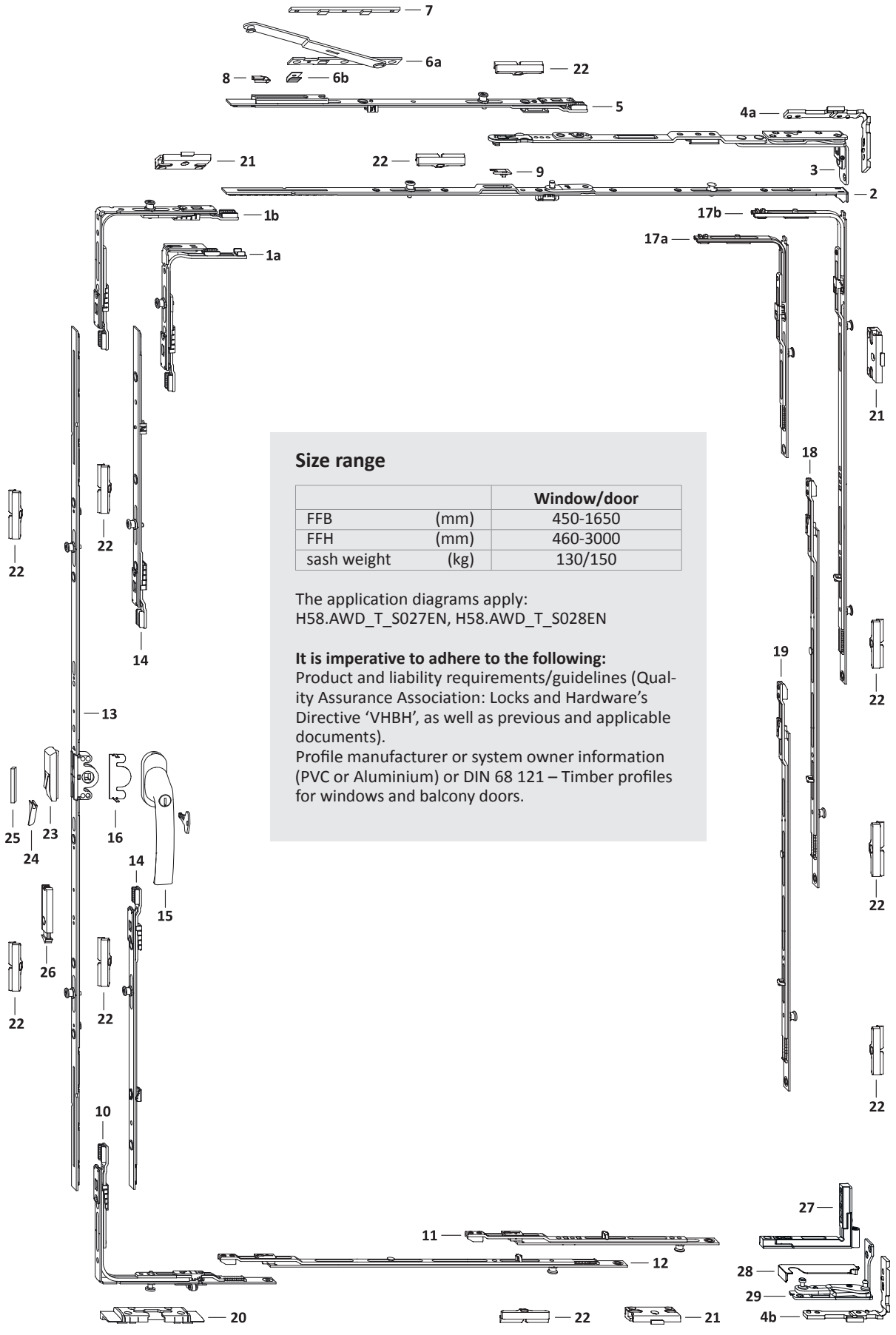
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout

1-sash square tilt-turn
PVC GM Hinge side axxent 24+

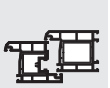


Size range

		Window/door
FFB	(mm)	450-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



List of fittings

1-sash square tilt-turn

PVC GM Hinge side axxent 24+

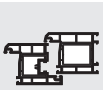
TITAN AF

RC1

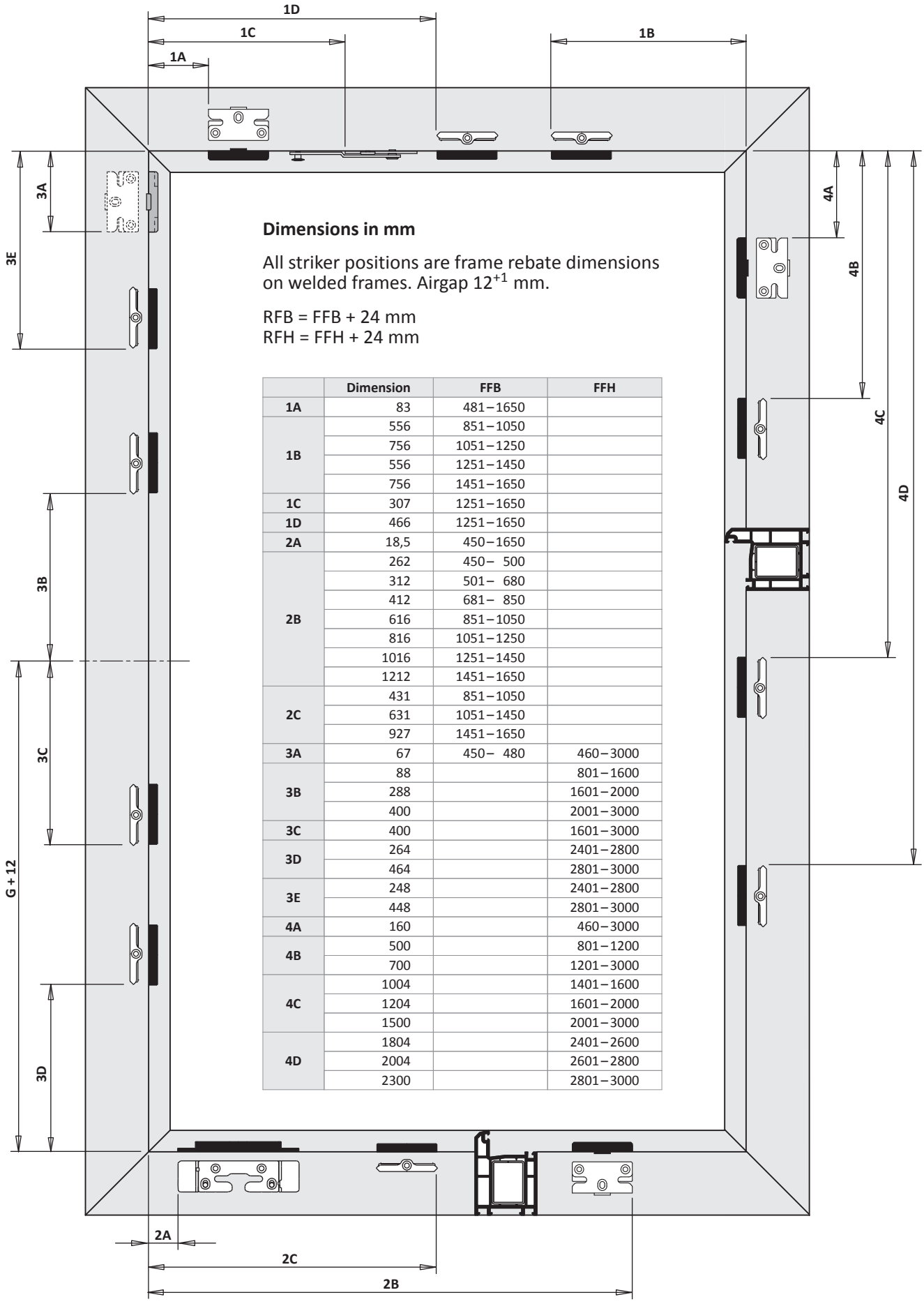
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							20	21	22
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	450– 480				1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1650				1	
2	stay sash part AF AX sz 1	TSSV4000- ...	1	450– 680					
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850					
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050					1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250					1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450					1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650					1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	450– 680					
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850					
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050					
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250					
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450					
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650					
4	crt. accessories AX	Ref. PDB, TMZV41	1	450–1650					
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650					1
6	additional stay	Ref. PDB, TSZS	1	1251–1650					
7	packer Z	Ref. PDB, FRUP01	1	1251–1650					
8	tilt restr. additional stay ..	889008	1	1251–1650					
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	460– 900				
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	460– 900				
10	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	450–1650			1		
11	extension sz 1+ 1RS	TVSO0200- ...	1	450– 500				1	
	extension sz 2+ 1RS	TVSL0320- ...		501– 680				1	
	extension sz 3+ 1RS	TVSL0330- ...		681– 850				1	
	extension sz 2+ 1RS	TVSL0320- ...		851–1250				1	
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450				1	
	extension sz 3+ 1RS	TVSL0330- ...		1451–1650				1	
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					1
13	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300			
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400			
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600			1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800			1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000			2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500			2
14	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800				2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000				2
15	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460–3000				
16	anti-drill guard E	TGBS0010- ...	1		460–3000				
17a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800			1	
17b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			1	1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000				1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000				1
20	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
21	striker plate S-RS	Ref. PDB, TRSK							
22	striker plate S 56	Ref. PDB, TRSM							
on request									
23	mishandling device	TFBS0010- ...	1						
24	pressure piece	Ref. PDB, TFFD	1						
25	stop	Ref. PDB, FRZF01	1						
26	snapper rh.	TFST0021- ...	1		1601–3000				
	snapper lh.	TFST0022- ...			1601–3000				

List of fittings

1-sash square tilt-turn
PVC GM Hinge side axxent 24+



Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
27	corner hinge AX	Ref. PDB, TBEB41		1	1
28	cover cap AX EL	Ref. PDB, TKEL41		1	1
29	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

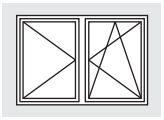
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

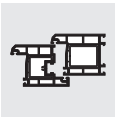
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	450–1650	
2B	262	450– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1212	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	450– 480	460–3000
3B	88		801–1600
	288		1601–2000
	400		2001–3000
3C	400		1601–3000
3D	264		2401–2800
	464		2801–3000
3E	248		2401–2800
	448		2801–3000
4A	160		460–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





RC1

2-sash square tilt-turn/turn DS 16

PVC

RC1

centre handle pos. (variable)

Hinge side axxent 24+

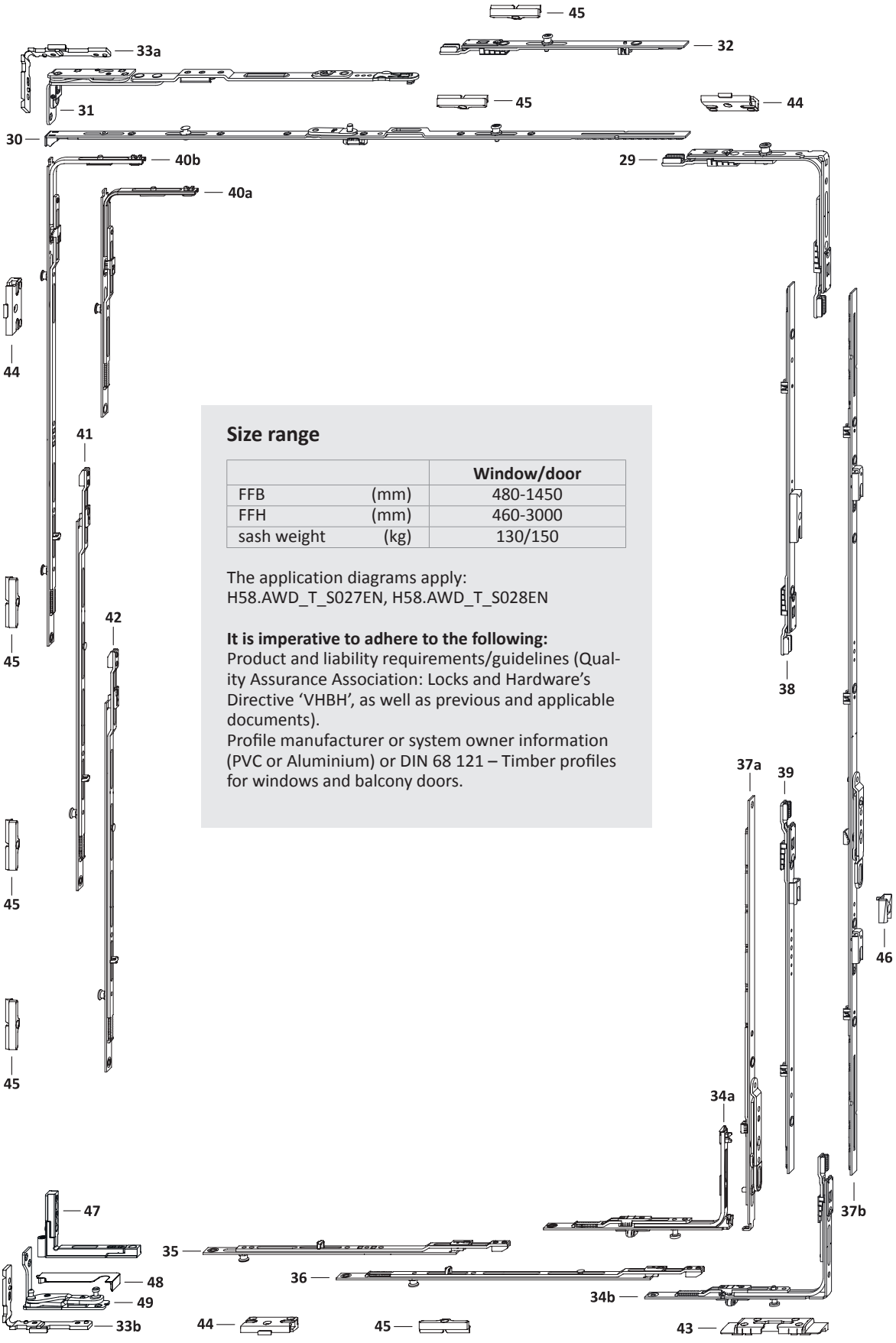
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+

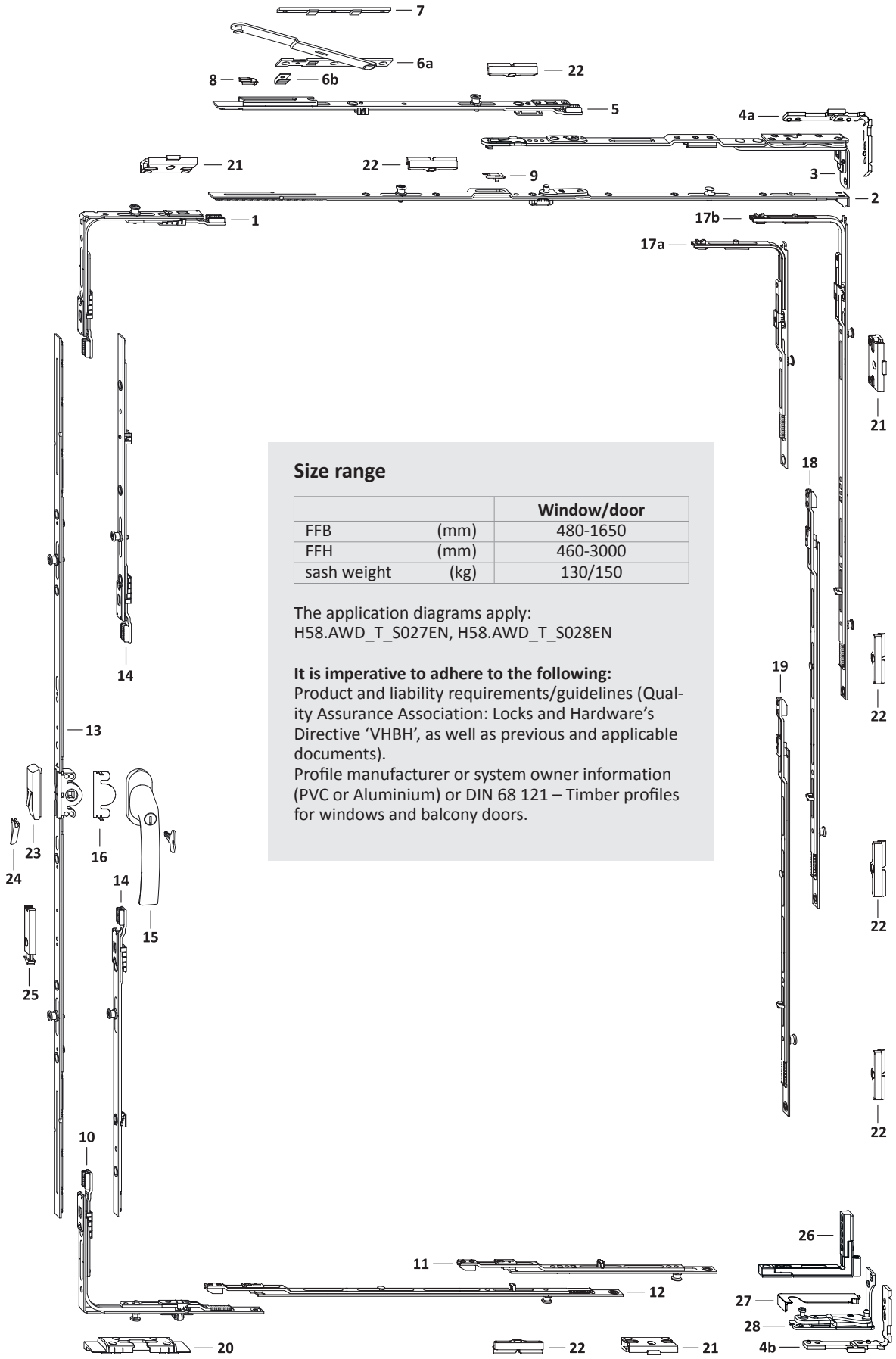


Size range

		Window/door
FFB	(mm)	480-1450
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

		Window/door
FFB	(mm)	480-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

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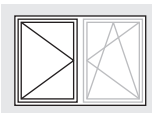
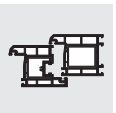
List of fittings slave sash

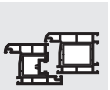
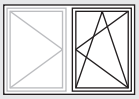
2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
						In the main sash	43	44	45
29	corn.drive VSO 1RS	TEUL4010- ...	1	480–1450				1	
30	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680					
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850					
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050					1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1450					1
31	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680					
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850					
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050					
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1450					
32	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450					1
33	crt. accessories AX	Ref. PDB, TMZV41	1	480–1450					
34a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	480–1450	460– 800		1		
34b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	480–1450	801–3000		1		
35	extension sz 1+ 1RS	TVSO0200- ...	1	480– 500				1	
	extension sz 2+ 1RS	TVSL0320- ...		501– 680				1	
	extension sz 3+ 1RS	TVSL0330- ...		681– 850				1	
	extension sz 2+ 1RS	TVSL0320- ...		851–1250				1	
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450				1	
36	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					1
37a	sec.sash gear 16 sz 30	TGKS0010- ...	1		460– 600	230– 300			
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300– 400			
37b	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...	1		801–1200	400– 600			
	sec.sash gear 16 AF sz 120 1SB	TGMS4050- ...			1201–1600	600– 800			
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000			
	sec.sash gear 16 AF sz 200 2SB	TGMS4080- ...			2001–3000	1000–1500			
38	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800				
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000				
39	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800				
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000				
40a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800			1	
40b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			1	1
41	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000				1
42	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000				1
43	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
44	striker plate S-RS	Ref. PDB, TRSK							
45	striker plate S 56	Ref. PDB, TRSM							
on request									
46	striker snapper AF A0767	TRST0100- ...	1		1601–3000				

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
47	corner hinge AX	Ref. PDB, TBEB41		1	1
48	cover cap AX EL	Ref. PDB, TKEL41		1	1
49	bottom hinge AX	Ref. PDB, TBEV41		1	1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+

TITAN AF

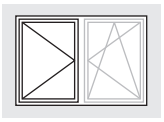
RC1

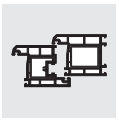
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							20	21	22
1	corn.drive VSO 1RS	TEUL4010- ...	1	480–1650				1	
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680					
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850					
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050					1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250					1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450					1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650					1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680					
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850					
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050					
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250					
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450					
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650					
4	crt. accessories AX	Ref. PDB, TMZV41	1	480–1650					
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650					1
6	additional stay	Ref. PDB, TSZS	1	1251–1650					
7	packer Z	Ref. PDB, FRUP01	1	1251–1650					
8	tilt restr. additional stay ..	889008	1	1251–1650					
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	460– 900				
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	460– 900				
10	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	480–1650			1		
11	extension sz 1+ 1RS	TVSO0200- ...	1	480– 500				1	
	extension sz 2+ 1RS	TVSL0320- ...		501– 680				1	
	extension sz 3+ 1RS	TVSL0330- ...		681– 850				1	
	extension sz 2+ 1RS	TVSL0320- ...		851–1250				1	
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450				1	
	extension sz 3+ 1RS	TVSL0330- ...		1451–1650				1	
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					1
13	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300			
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400			
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600			
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800			
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000			
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500			
14	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800				
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000				
15	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460–3000				
16	anti-drill guard E	TGBS0010- ...	1		460–3000				
17a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800			1	
17b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			1	1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000				1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000				1
20	tilt lock bear. S-ES FH	Ref. PDB, FRKA							
21	striker plate S-RS	Ref. PDB, TRSK							
22	striker plate S 56	Ref. PDB, TRSM							
	on request								
23	mishandling device	TFBS0010- ...	1						
24	pressure piece	Ref. PDB, TFFD	1						
25	snapper rh.	TFST0021- ...	1		1601–3000				
	snapper lh.	TFST0022- ...			1601–3000				

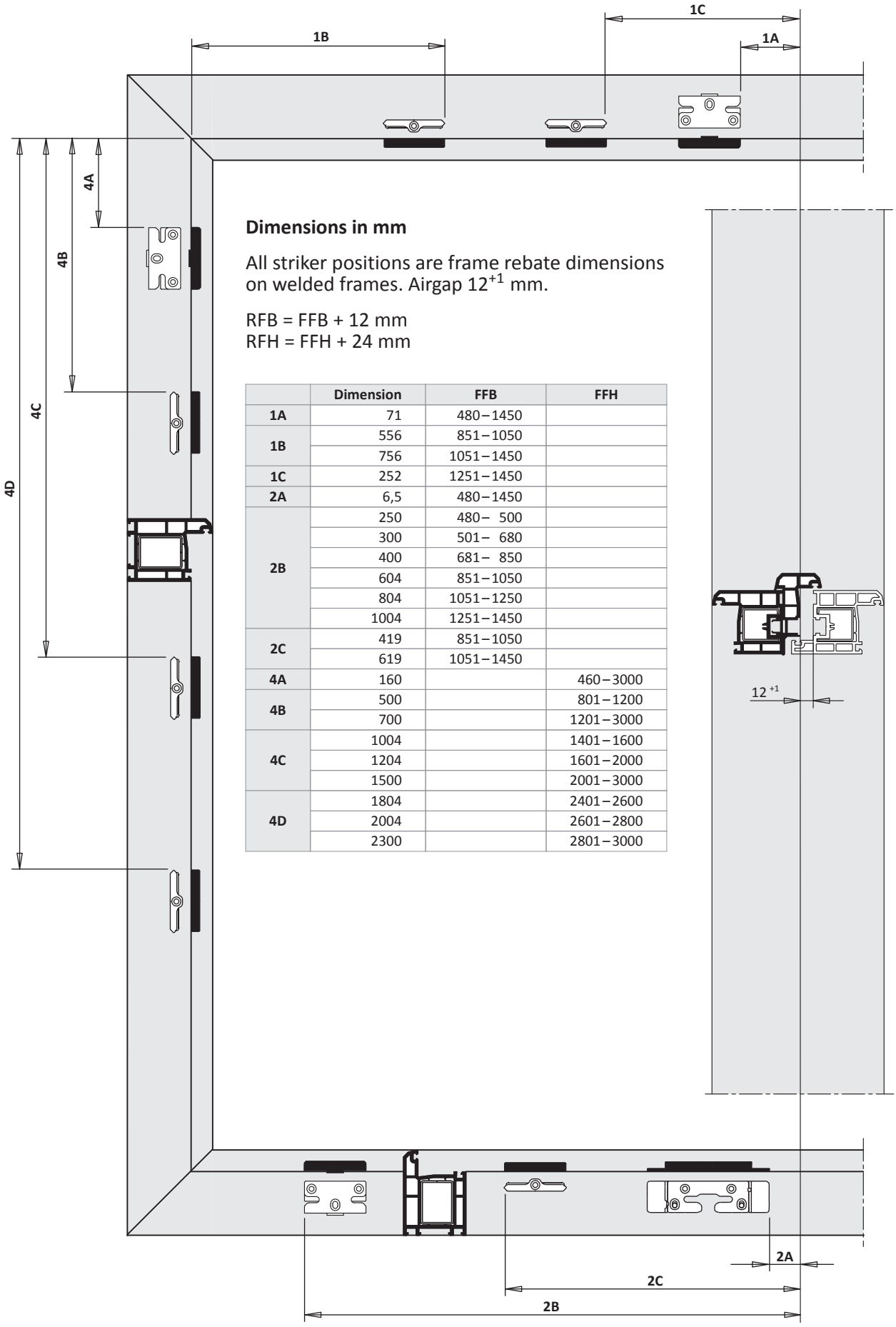
Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
26	corner hinge AX	Ref. PDB, TBEB41		1	1
27	cover cap AX EL	Ref. PDB, TKEL41		1	1
28	bottom hinge AX	Ref. PDB, TBEV41		1	1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+





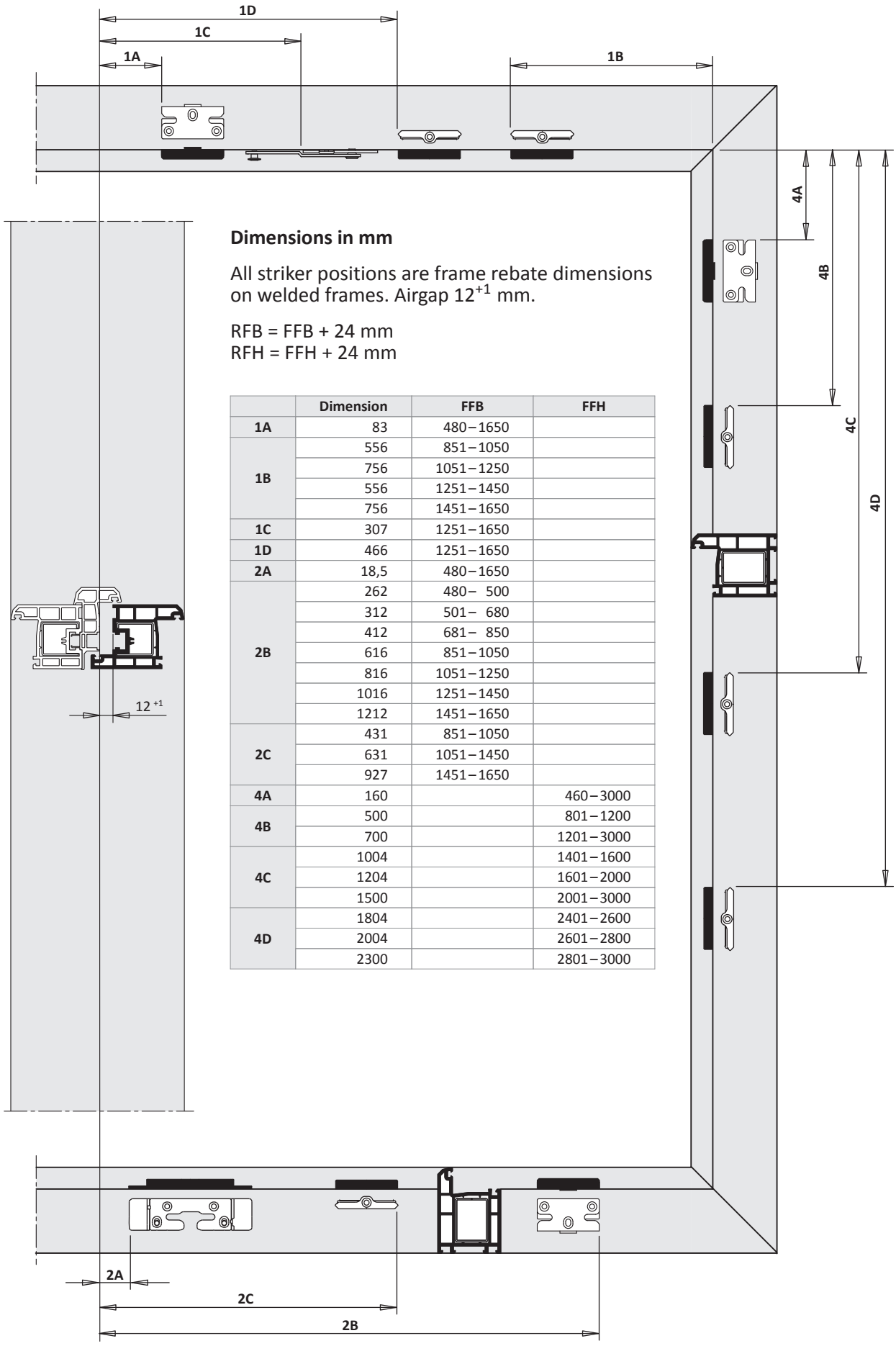


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	480–1450	
1B	556	851–1050	
	756	1051–1450	
1C	252	1251–1450	
2A	6,5	480–1450	
2B	250	480– 500	
	300	501– 680	
	400	681– 850	
	604	851–1050	
	804	1051–1250	
	1004	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		460–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000



Dimensions in mm

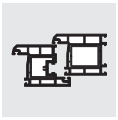
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	480–1650	
2B	262	480– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1212	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		460–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



RC1

1-sash square tilt before turn (TBT)

PVC

RC1

centre handle pos. (variable)

Hinge side axxent 24+

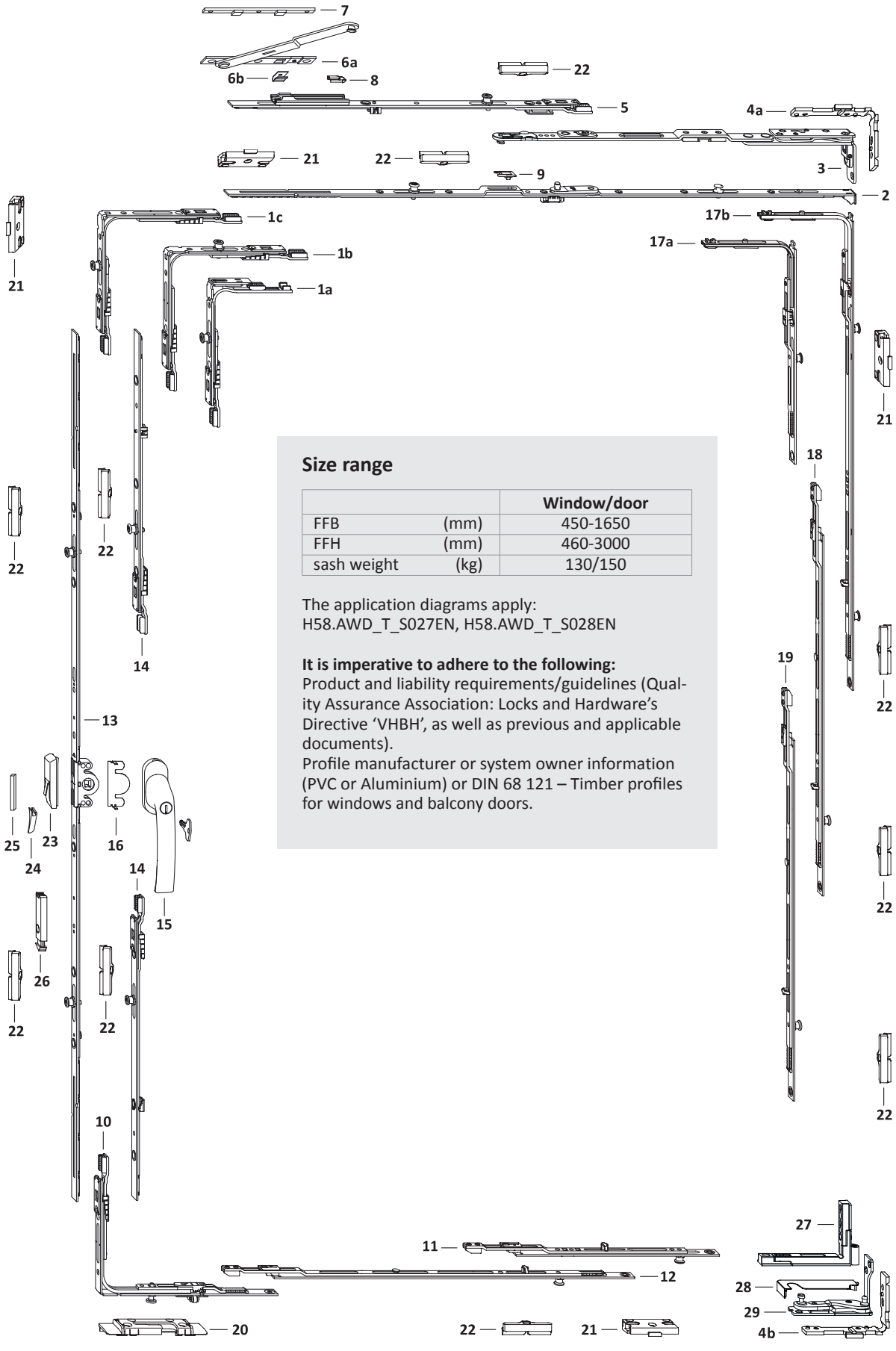
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout

1-sash square tilt before turn (TBT)
PVC GM Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	450-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

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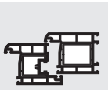
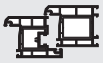


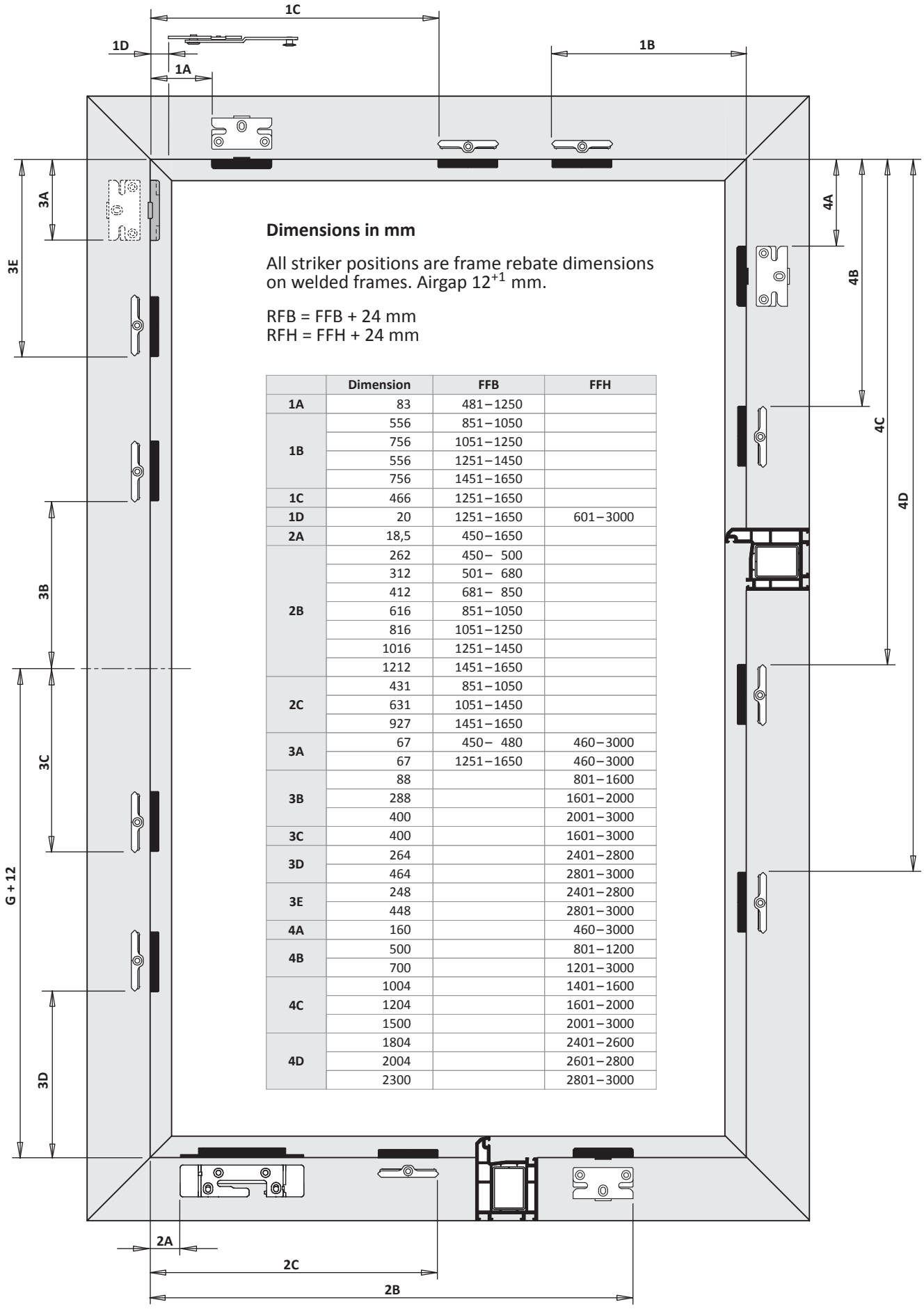
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.		
							20	21	22
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	450– 480				1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1250				1	
1c	corn.drive VSO 1RS	TEUL4010- ...	1	1251–1650				1	
2	stay sash part AF AX sz 1	TSSV4000- ...	1	450– 680					
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850					
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050					1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250					1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450					1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650					1
3	stay arm AX TBT sz 1	Ref. PDB, TSAV51	1	450– 680					
	stay arm AX TBT sz 2+3	Ref. PDB, TSAV52		681– 850					
	stay arm AX TBT sz 4	Ref. PDB, TSAV54		851–1050					
	stay arm AX TBT sz 5	Ref. PDB, TSAV55		1051–1250					
	stay arm AX TBT sz 4	Ref. PDB, TSAV54		1251–1450					
	stay arm AX TBT sz 5	Ref. PDB, TSAV55		1451–1650					
4	crt. accessories AX	Ref. PDB, TMZV41	1	450–1650					
5	linkage add. stay AF TBT RS	TZOT1010- ...	1	1251–1650					1
6	additional stay	Ref. PDB, TSZS	1	1251–1650					
7	packer Z	Ref. PDB, FRUP01	1	1251–1650					
8	tilt restr. additional stay ..	889008	1	1251–1650					
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	460– 900				
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	460– 900				
10	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	450–1650			1		
11	extension sz 1+ 1RS	TVSO0200- ...	1	450– 500				1	
	extension sz 2+ 1RS	TVSL0320- ...		501– 680				1	
	extension sz 3+ 1RS	TVSL0330- ...		681– 850				1	
	extension sz 2+ 1RS	TVSL0320- ...		851–1250				1	
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450				1	
	extension sz 3+ 1RS	TVSL0330- ...		1451–1650				1	
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050					1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450					1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650					1
13	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300			
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400			
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	500– 600			1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800			1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000			2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500			2
14	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800				2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000				2
15	handle Globe TBT lockable	Ref.access. ZHGT	1		460–3000				
16	anti-drill guard E	TGBS0010- ...	1		460–3000				
17a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800			1	
17b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			1	1
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000				1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000				1
20	tilt lock bear. S-ES FH TBT	Ref. PDB, FRKB							
21	striker plate S-RS	Ref. PDB, TRSK							
22	striker plate S 56	Ref. PDB, TRSM							
on request									
23	mishandling device	TFBS0010- ...	1						
24	pressure piece	Ref. PDB, TFFD	1						
25	stop	Ref. PDB, FRZF01	1						
26	snapper rh.	TFST0021- ...	1		1601–3000				
	snapper lh.	TFST0022- ...			1601–3000				

List of fittings

1-sash square tilt before turn (TBT)
PVC GM Hinge side axxent 24+



Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
27	corner hinge AX	Ref. PDB, TBEB41		1	1
28	cover cap AX EL	Ref. PDB, TKEL41		1	1
29	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1250	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	466	1251–1650	
1D	20	1251–1650	601–3000
2A	18,5	450–1650	
2B	262	450– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1212	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	450– 480	460–3000
	67	1251–1650	460–3000
3B	88		801–1600
	288		1601–2000
	400		2001–3000
3C	400		1601–3000
3D	264		2401–2800
	464		2801–3000
3E	248		2401–2800
	448		2801–3000
4A	160		460–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions

RC1

1-sash square tilt-turn

PVC

RC1

centre handle pos. (variable)

Hinge side axxent 24+

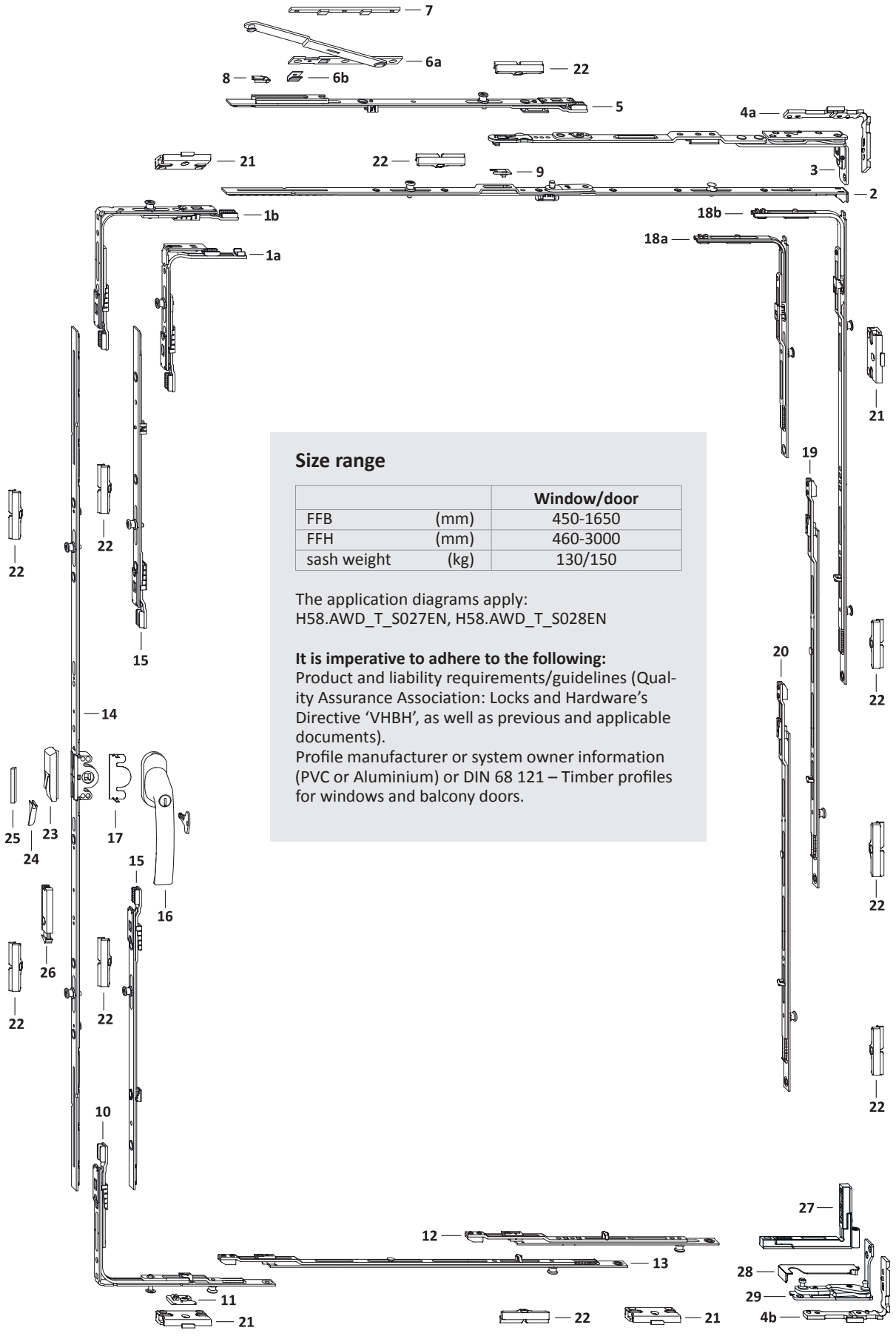
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout

1-sash square tilt-turn
PVC GM Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	450-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

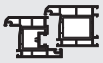
The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

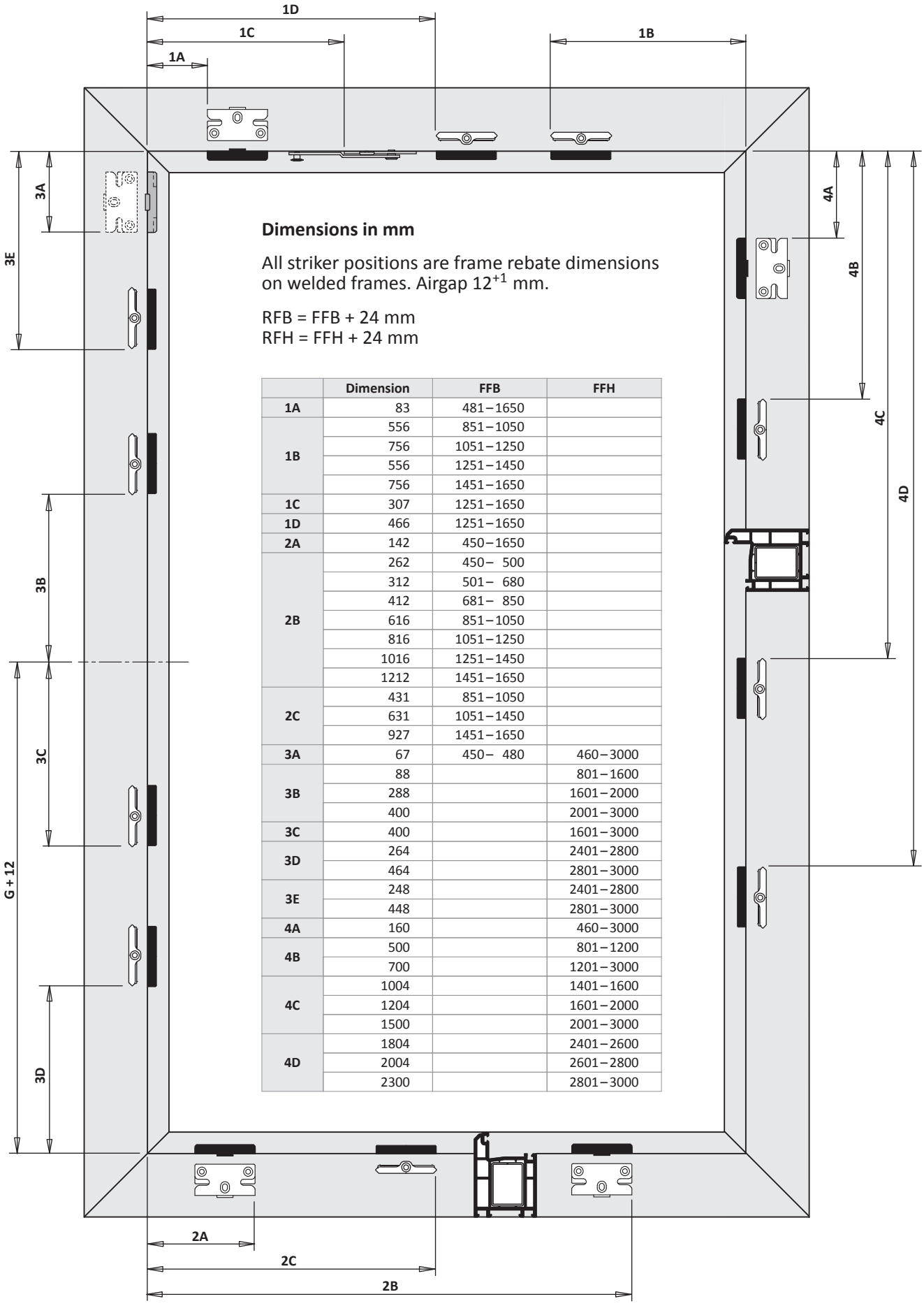
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							21	22
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	450– 480			1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1650			1	
2	stay sash part AF AX sz 1	TSSV4000- ...	1	450– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	450– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	450–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	460– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	460– 900			
10	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	450–1650			1	
11	run up block AF 13 mm 13	TFFH0080- ...	1	450–1650				
12	extension sz 1+ 1RS	TVSO0200- ...	1	450– 500			1	
	extension sz 2+ 1RS	TVSL0320- ...		501– 680			1	
	extension sz 3+ 1RS	TVSL0330- ...		681– 850			1	
	extension sz 2+ 1RS	TVSL0320- ...		851–1250			1	
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450			1	
	extension sz 3+ 1RS	TVSL0330- ...		1451–1650			1	
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
14	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		2
15	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
16	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460–3000			
17	anti-drill guard E	TGBS0010- ...	1		460–3000			
18a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800		1	
18b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		1	1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
21	striker plate S-RS	Ref. PDB, TRSK						
22	striker plate S 56	Ref. PDB, TRSM						
on request								
23	mishandling device	TFBS0010- ...	1					
24	pressure piece	Ref. PDB, TFFD	1					
25	stop	Ref. PDB, FRZF01	1					
26	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

List of fittings

1-sash square tilt-turn
PVC GM Hinge side axxent 24+



Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
27	corner hinge AX	Ref. PDB, TBEB41		1	1
28	cover cap AX EL	Ref. PDB, TKEL41		1	1
29	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

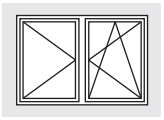
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

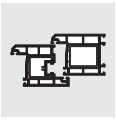
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	450–1650	
2B	262	450– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1212	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	450– 480	460–3000
3B	88		801–1600
	288		1601–2000
	400		2001–3000
3C	400		1601–3000
3D	264		2401–2800
	464		2801–3000
3E	248		2401–2800
	448		2801–3000
4A	160		460–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





RC1

2-sash square tilt-turn/turn DS 16

PVC

RC1

centre handle pos. (variable)

Hinge side axxent 24+

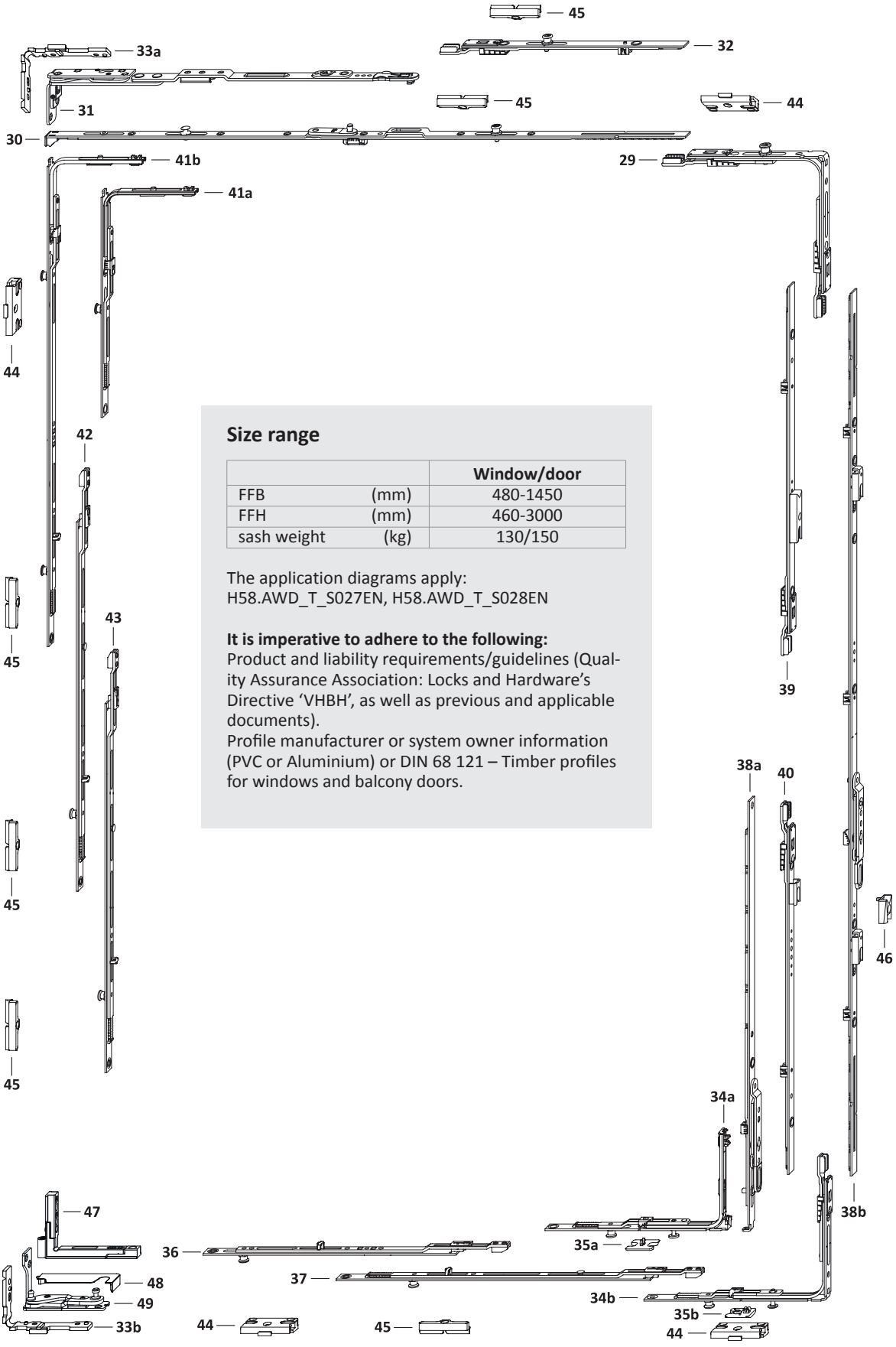
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	480-1450
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
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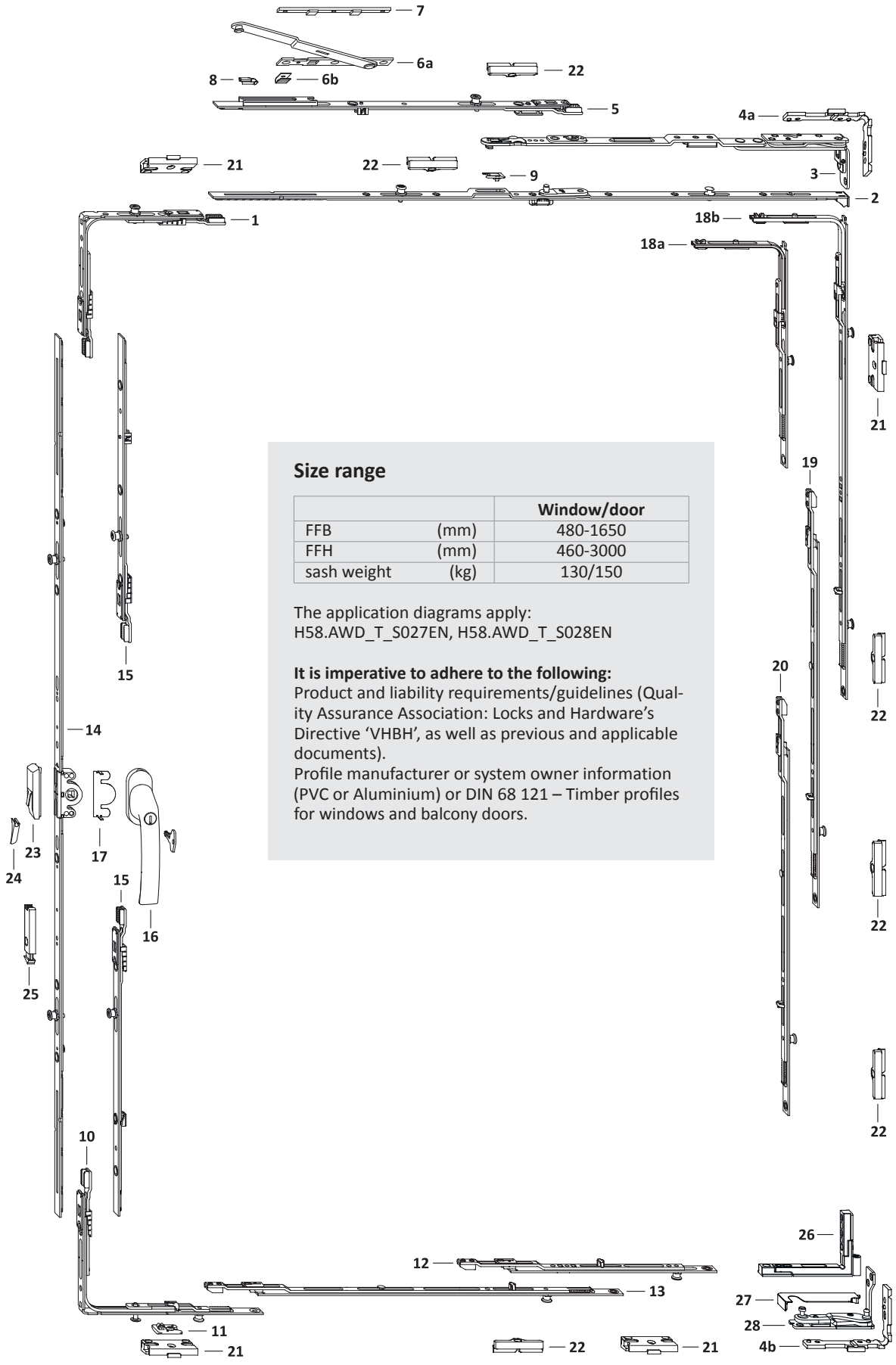
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

		Window/door
FFB	(mm)	480-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
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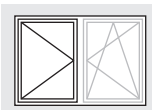
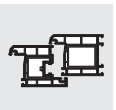
List of fittings slave sash

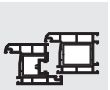
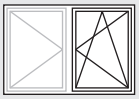
2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	44	45
29	corn.drive VSO 1RS	TEUL4010- ...	1	480–1450			1	
30	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1450				1
31	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1450				
32	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
33	crt. accessories AX	Ref. PDB, TMZV41	1	480–1450				
34a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480–1450	460– 800		1	
34b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480–1450	801–3000		1	
35a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480–1450	460– 800			
35b	run up block AF 13 mm 13	TFFH0080- ...	1	480–1450	801–3000			
36	extension sz 1+ 1RS	TVSO0200- ...	1	480– 500			1	
	extension sz 2+ 1RS	TVSL0320- ...		501– 680			1	
	extension sz 3+ 1RS	TVSL0330- ...		681– 850			1	
	extension sz 2+ 1RS	TVSL0320- ...		851–1250			1	
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450			1	
37	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
38a	sec.sash gear 16 sz 30	TGKS0010- ...	1		460– 600	230– 300		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300– 400		
38b	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...	1		801–1200	400– 600		
	sec.sash gear 16 AF sz 120 1SB	TGMS4050- ...			1201–1600	600– 800		
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000		
	sec.sash gear 16 AF sz 200 2SB	TGMS4080- ...			2001–3000	1000–1500		
39	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
40	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800			
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000			
41a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800		1	
41b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		1	1
42	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
43	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
44	striker plate S-RS	Ref. PDB, TRSK						
45	striker plate S 56	Ref. PDB, TRSM						
on request								
46	striker snapper AF A0767	TRST0100- ...	1		1601–3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
47	corner hinge AX	Ref. PDB, TBEB41		1	1
48	cover cap AX EL	Ref. PDB, TKEL41		1	1
49	bottom hinge AX	Ref. PDB, TBEV41		1	1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+

TITAN AF

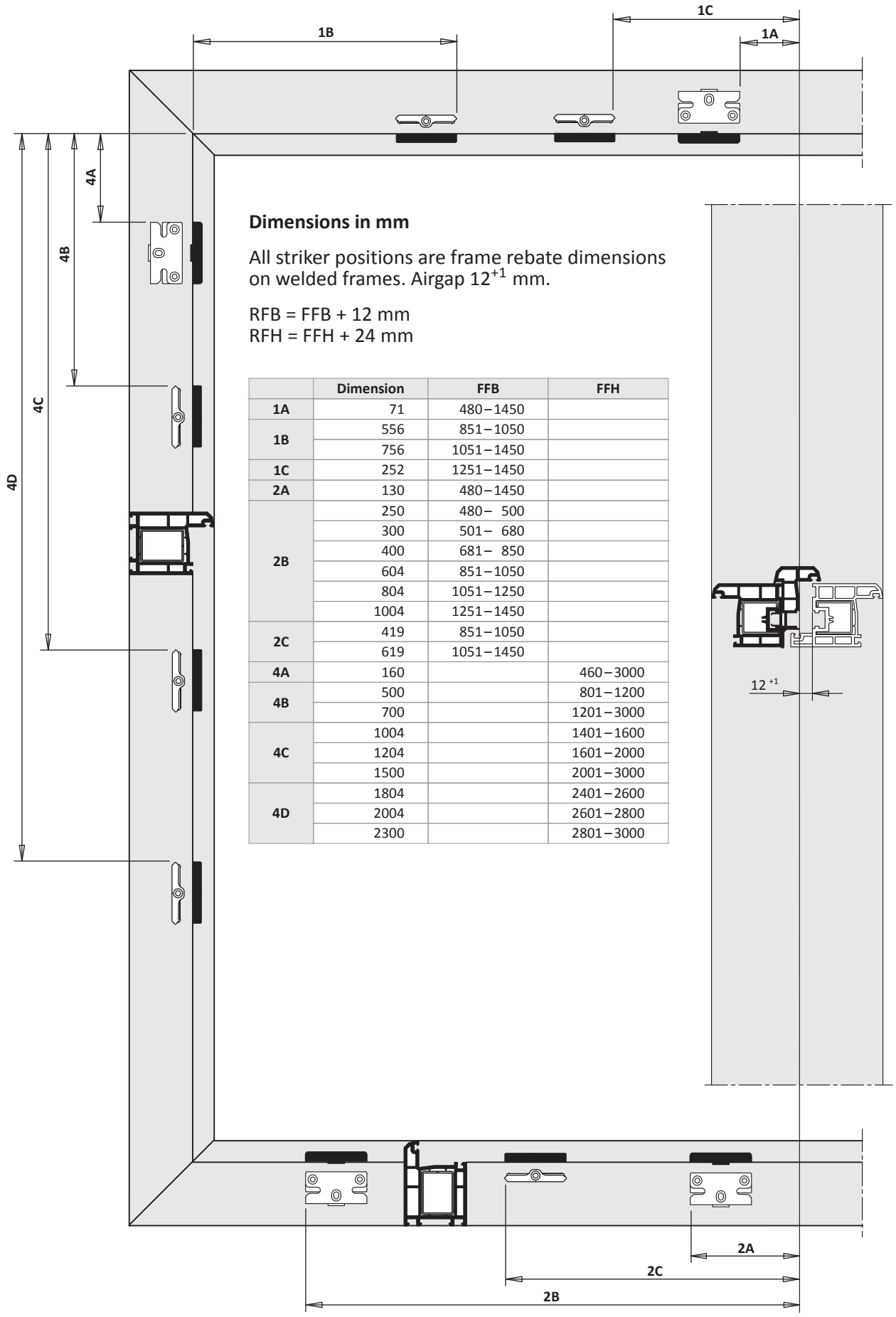
RC1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							21	22
1	corn.drive VSO 1RS	TEUL4010- ...	1	480 – 1650			1	
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480 – 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681 – 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851 – 1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051 – 1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251 – 1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451 – 1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480 – 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681 – 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851 – 1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051 – 1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251 – 1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451 – 1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	480 – 1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251 – 1650				1
6	additional stay	Ref. PDB, TSZS	1	1251 – 1650				
7	packer Z	Ref. PDB, FRUP01	1	1251 – 1650				
8	tilt restr. additional stay ..	889008	1	1251 – 1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681 – 1050	460 – 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051 – 1250	460 – 900			
10	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480 – 1650			1	
11	run up block AF 13 mm 13	TFFH0080- ...	1	480 – 1650				
12	extension sz 1+ 1RS	TVSO0200- ...	1	480 – 500			1	
	extension sz 2+ 1RS	TVSL0320- ...		501 – 680			1	
	extension sz 3+ 1RS	TVSL0330- ...		681 – 850			1	
	extension sz 2+ 1RS	TVSL0320- ...		851 – 1250			1	
	extension sz 4+ 1RS	TVSL0340- ...		1251 – 1450			1	
	extension sz 3+ 1RS	TVSL0330- ...		1451 – 1650			1	
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451 – 1650				1
14	gear 15 AF sz 20	TGMK4010- ...	1		460 – 600	230 – 300		
	gear 15 AF sz 60	TGMK4020- ...			601 – 800	300 – 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801 – 1200	400 – 600		
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201 – 1600	600 – 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601 – 2000	800 – 1000		
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001 – 3000	1000 – 1500		
15	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401 – 2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000			
16	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460 – 3000			
17	anti-drill guard E	TGBS0010- ...	1		460 – 3000			
18a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460 – 800		1	
18b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200		1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000		1	1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000			1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000			1
21	striker plate S-RS	Ref. PDB, TRSK						
22	striker plate S 56	Ref. PDB, TRSM						
on request								
23	mishandling device	TFBS0010- ...	1					
24	pressure piece	Ref. PDB, TFFD	1					
25	snapper rh.	TFST0021- ...	1		1601 – 3000			
	snapper lh.	TFST0022- ...			1601 – 3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
26	corner hinge AX	Ref. PDB, TBEB41		1	1
27	cover cap AX EL	Ref. PDB, TKEL41		1	1
28	bottom hinge AX	Ref. PDB, TBEV41		1	1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+

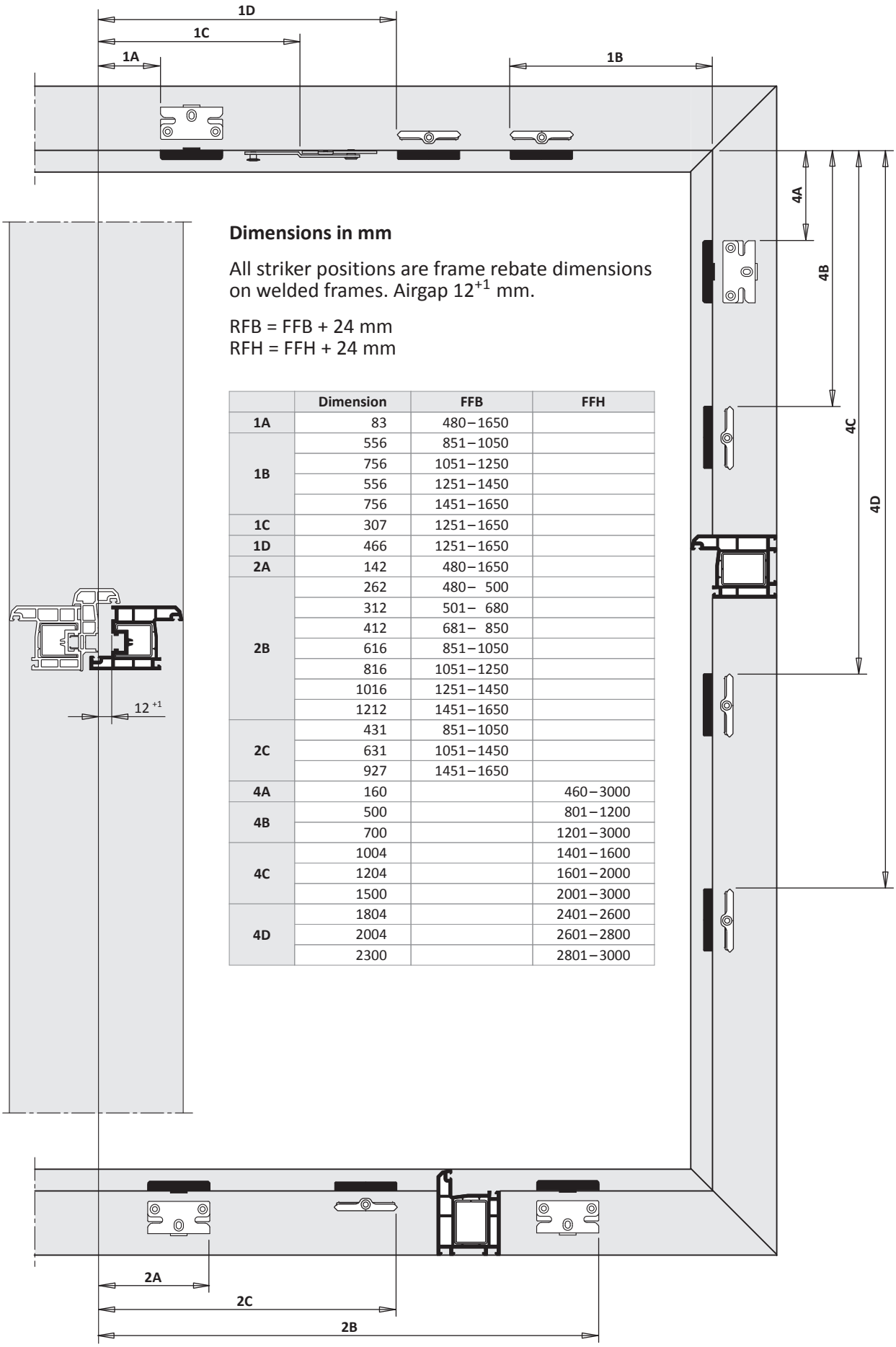


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	480–1450	
1B	556	851–1050	
	756	1051–1450	
1C	252	1251–1450	
2A	130	480–1450	
2B	250	480– 500	
	300	501– 680	
	400	681– 850	
	604	851–1050	
	804	1051–1250	
	1004	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		460–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	480–1650	
2B	262	480– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1212	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		460–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions

RC1

1-sash square tilt-turn

PVC

RC1

centre handle pos. (variable)

Hinge side axxent 24+

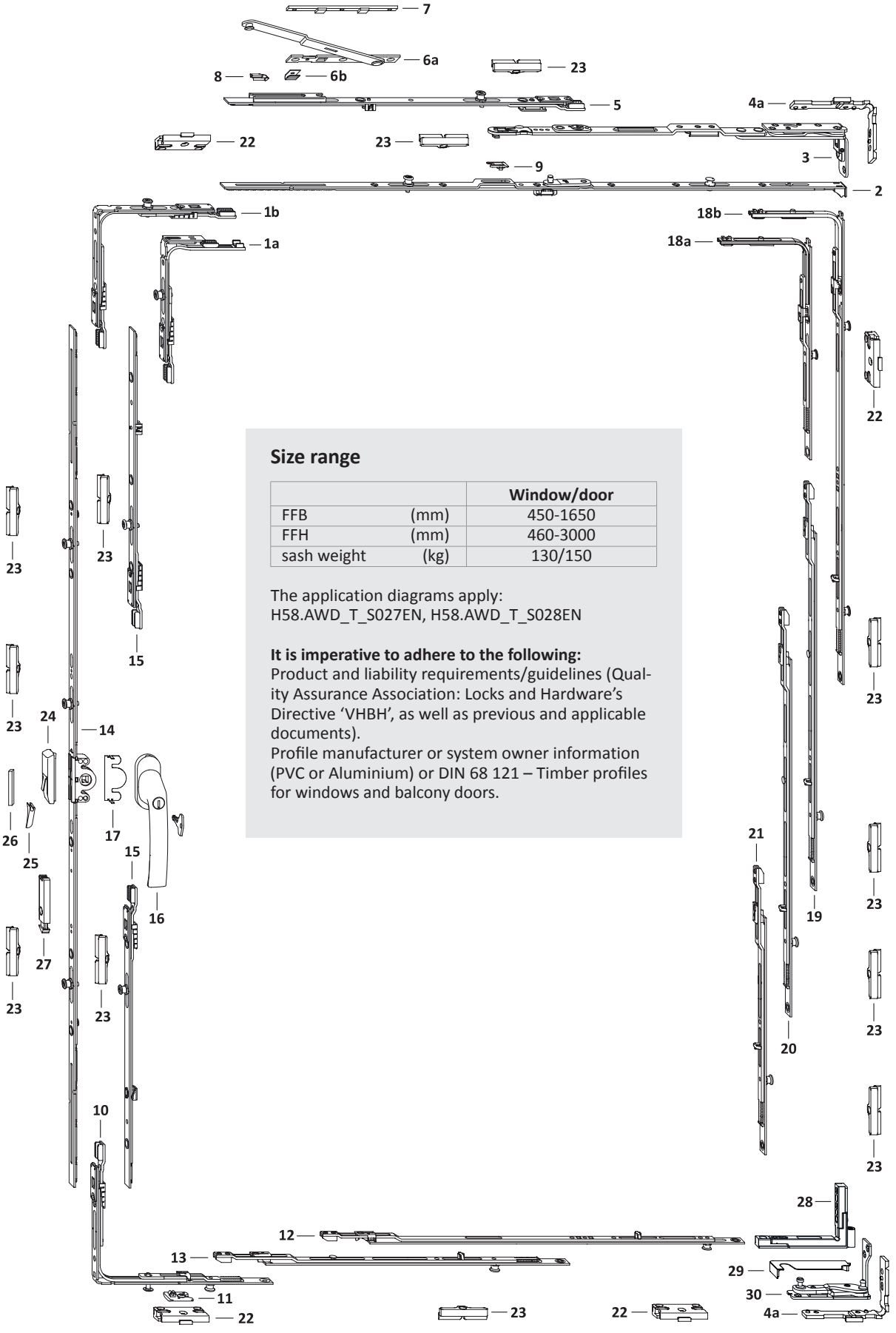
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout

1-sash square tilt-turn
PVC GM Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	450-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

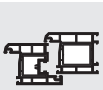
The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

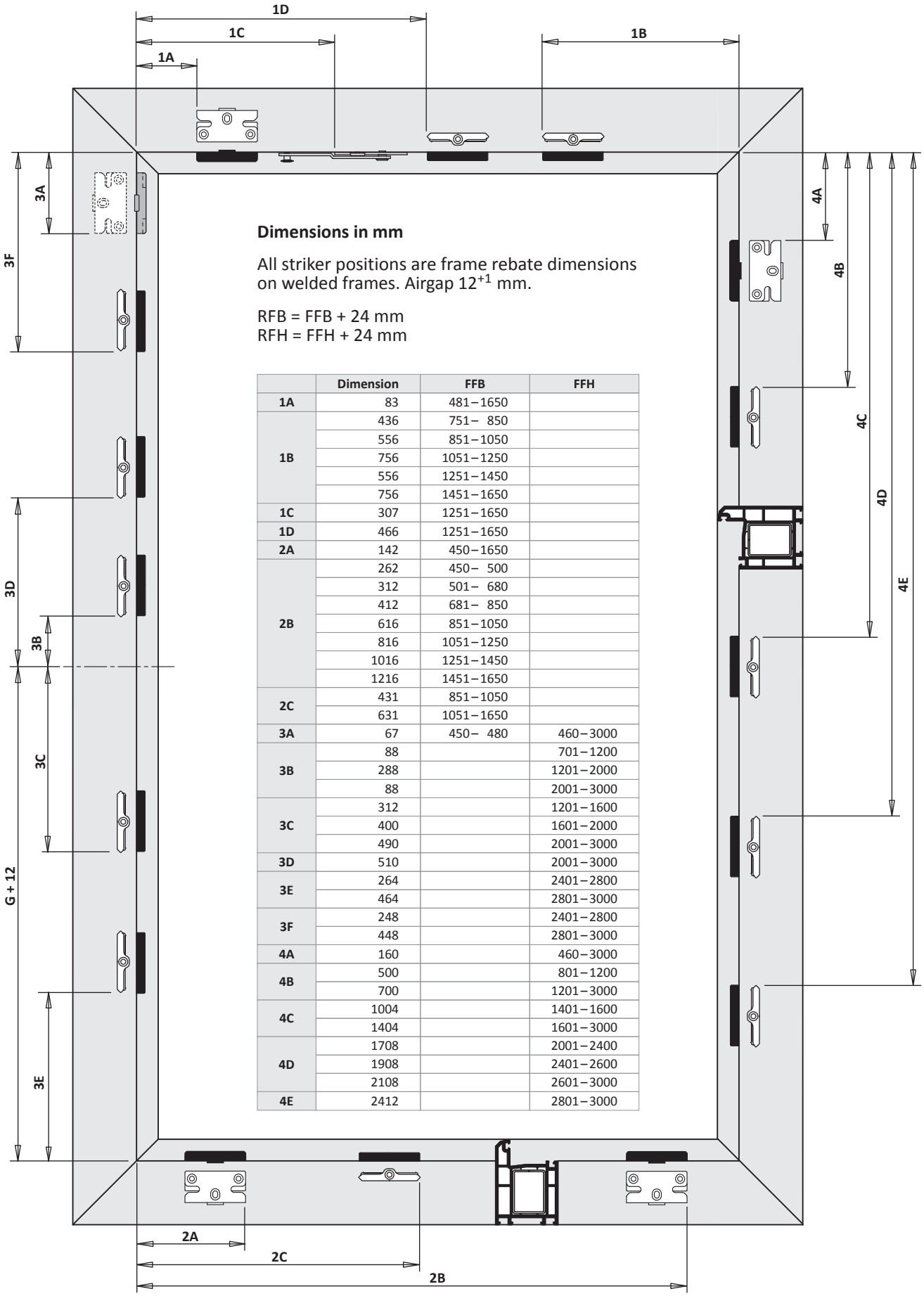
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							22	23
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	450– 480			1	
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1650			1	
2	stay sash part AF AX sz 1	TSSV4000- ...	1	450– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 750				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751– 850				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	450– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	450–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	460– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	460– 900			
10	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	450–1650			1	
11	run up block AF 13 mm 13	TFFH0080- ...	1	450–1650				
12	extension sz 1+ 1RS	TVSO0200- ...	1	450– 500			1	
	extension sz 2+ 1RS	TVSL0320- ...		501– 680			1	
	extension sz 3+ 1RS	TVSL0330- ...		681– 850			1	
	extension sz 2+ 1RS	TVSL0320- ...		851–1050			1	
	extension sz 2+ 1RS	TVSL0320- ...		1051–1250			1	
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450			1	
	extension sz 6+ 1RS	TVSL0360- ...		1451–1650			1	
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
14	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 700	300– 350		
	gear 15 AF sz 70 1RS	TGMK4030- ...			701– 800	350– 400		1
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201–1600	600– 800		2
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001–3000	1000–1500		3
15	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
16	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460–3000			
17	anti-drill guard E	TGBS0010- ...	1		460–3000			
18a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800		1	
18b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		1	1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
21	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
22	striker plate S-RS	Ref. PDB, TRSK						
23	striker plate S 56	Ref. PDB, TRSM						
on request								
24	mishandling device	TFBS0010- ...	1					
25	pressure piece	Ref. PDB, TFFD	1					
26	stop	Ref. PDB, FRZF01	1					
27	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

List of fittings

1-sash square tilt-turn
PVC GM Hinge side axxent 24+



Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
28	corner hinge AX	Ref. PDB, TBEB41		1	1
29	cover cap AX EL	Ref. PDB, TKEL41		1	1
30	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

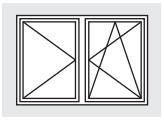
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

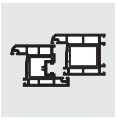
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	436	751– 850	
	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	450–1650	
2B	262	450– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1216	1451–1650	
2C	431	851–1050	
	631	1051–1650	
3A	67	450– 480	460–3000
3B	88		701–1200
	288		1201–2000
	88		2001–3000
3C	312		1201–1600
	400		1601–2000
	490		2001–3000
3D	510		2001–3000
3E	264		2401–2800
	464		2801–3000
3F	248		2401–2800
	448		2801–3000
4A	160		460–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

TITAN AF

Installation instructions





RC1

2-sash square tilt-turn/turn DS 16

PVC

RC1

centre handle pos. (variable)

Hinge side axxent 24+

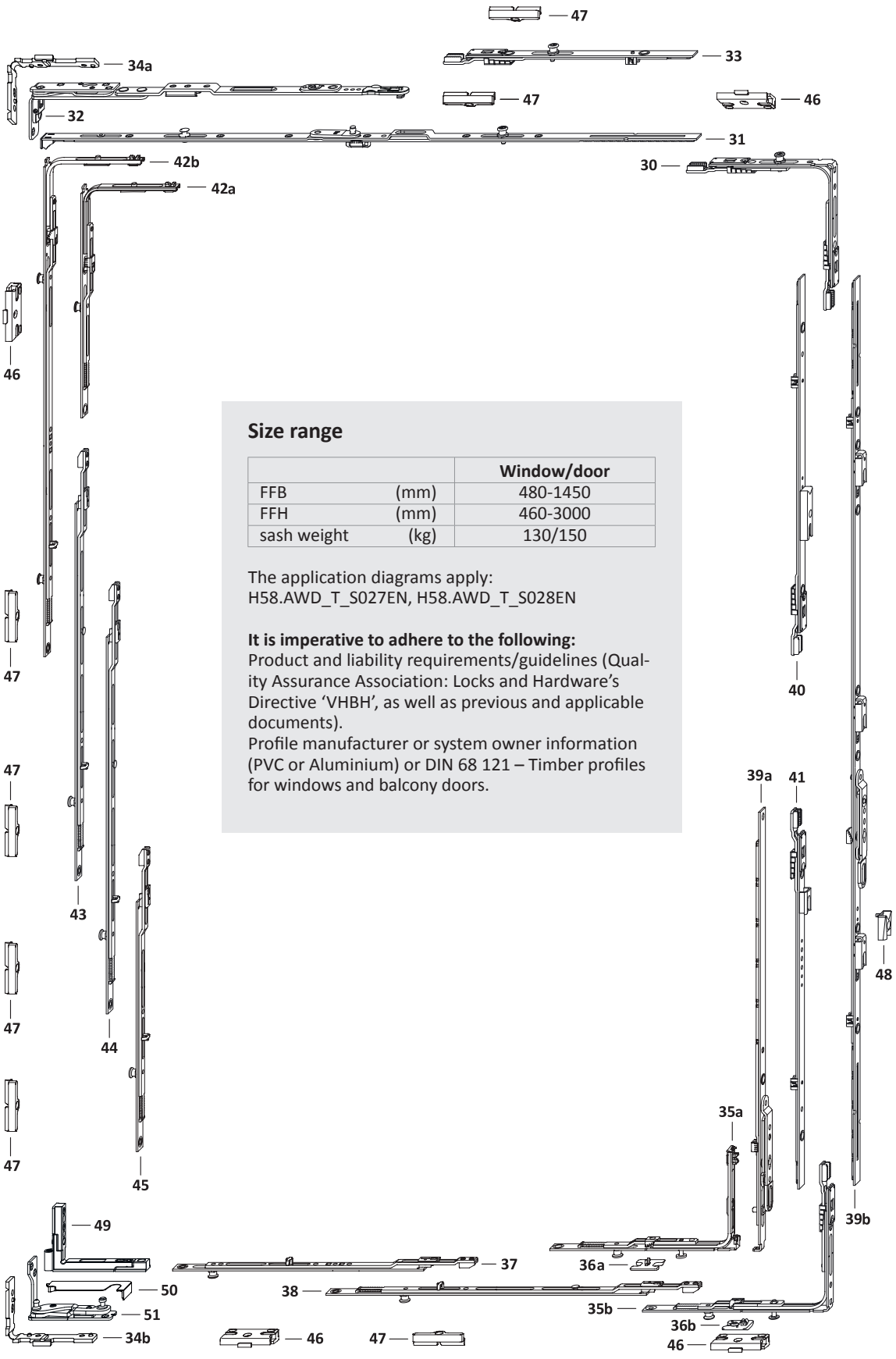
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	480-1450
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

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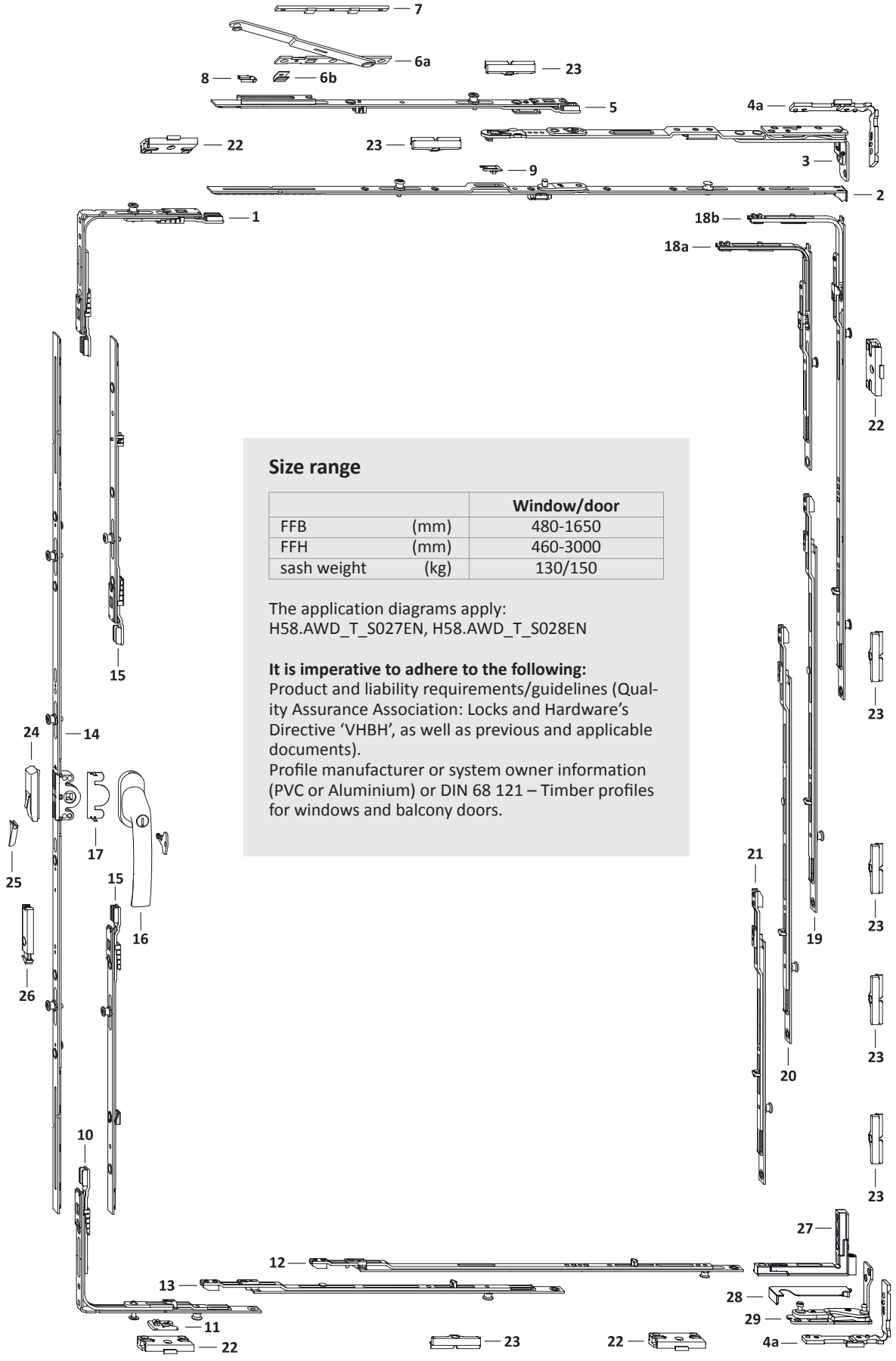
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

		Window/door
FFB	(mm)	480-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

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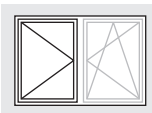
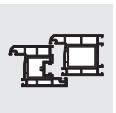
List of fittings slave sash

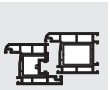
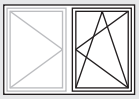
2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	46	47
30	corn.drive VSO 1RS	TEUL4010- ...	1	480–1450			1	
31	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 750				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751– 850				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1450				1
32	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1450				
33	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
34	crt. accessories AX	Ref. PDB, TMZV41	1	480–1450				
35a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480–1450	460– 800		1	
35b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480–1450	801–3000		1	
36a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480–1450	460– 800			
36b	run up block AF 13 mm 13	TFFH0080- ...	1	480–1450	801–3000			
37	extension sz 1+ 1RS	TVSO0200- ...	1	480– 500			1	
	extension sz 2+ 1RS	TVSL0320- ...		501– 680			1	
	extension sz 3+ 1RS	TVSL0330- ...		681– 850			1	
	extension sz 2+ 1RS	TVSL0320- ...		851–1050			1	
	extension sz 2+ 1RS	TVSL0320- ...		1051–1250			1	
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450			1	
38	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
39a	sec.sash gear 16 sz 30	TGKS0010- ...	1		460– 600	230– 300		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300– 350		
39b	sec.sash gear 16 AF sz 70 1SB	TGMS4030- ...	1		701– 800	350– 400		
	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...			801–1200	400– 600		
	sec.sash gear 16 AF 120 2SB 70	TGMS4120- ...			1201–1600	600– 800		
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000		
	sec.sash gear 16 AF 200 3SB 70	TGMS4100- ...			2001–3000	1000–1500		
40	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
41	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800			
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000			
42a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800		1	
42b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		1	1
43	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
44	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
45	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
46	striker plate S-RS	Ref. PDB, TRSK						
47	striker plate S 56	Ref. PDB, TRSM						
on request								
48	striker snapper AF A0767	TRST0100- ...	1		1601–3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
49	corner hinge AX	Ref. PDB, TBEB41		1	1
50	cover cap AX EL	Ref. PDB, TKEL41		1	1
51	bottom hinge AX	Ref. PDB, TBEV41		1	1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+

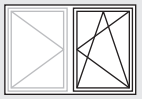
TITAN AF

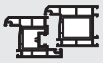
RC1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							22	23
1	corn.drive VSO 1RS	TEUL4010- ...	1	480–1650			1	
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 750				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751– 850				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	480–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	460– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	460– 900			
10	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480–1650			1	
11	run up block AF 13 mm 13	TFFH0080- ...	1	480–1650				
12	extension sz 1+ 1RS	TVSO0200- ...	1	480– 500			1	
	extension sz 2+ 1RS	TVSL0320- ...		501– 680			1	
	extension sz 3+ 1RS	TVSL0330- ...		681– 850			1	
	extension sz 2+ 1RS	TVSL0320- ...		851–1050			1	
	extension sz 2+ 1RS	TVSL0320- ...		1051–1250			1	
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450			1	
	extension sz 6+ 1RS	TVSL0360- ...		1451–1650			1	
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650				1
14	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 700	300– 350		
	gear 15 AF sz 70 1RS	TGMK4030- ...			701– 800	350– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201–1600	600– 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001–3000	1000–1500		
15	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
16	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460–3000			
17	anti-drill guard E	TGBS0010- ...	1		460–3000			
18a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800		1	
18b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		1	1
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		1	1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000			1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600			1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000			1
21	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000			1
22	striker plate S-RS	Ref. PDB, TRSK						
23	striker plate S 56	Ref. PDB, TRSM						
on request								
24	mishandling device	TFBS0010- ...	1					
25	pressure piece	Ref. PDB, TFFD	1					
26	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

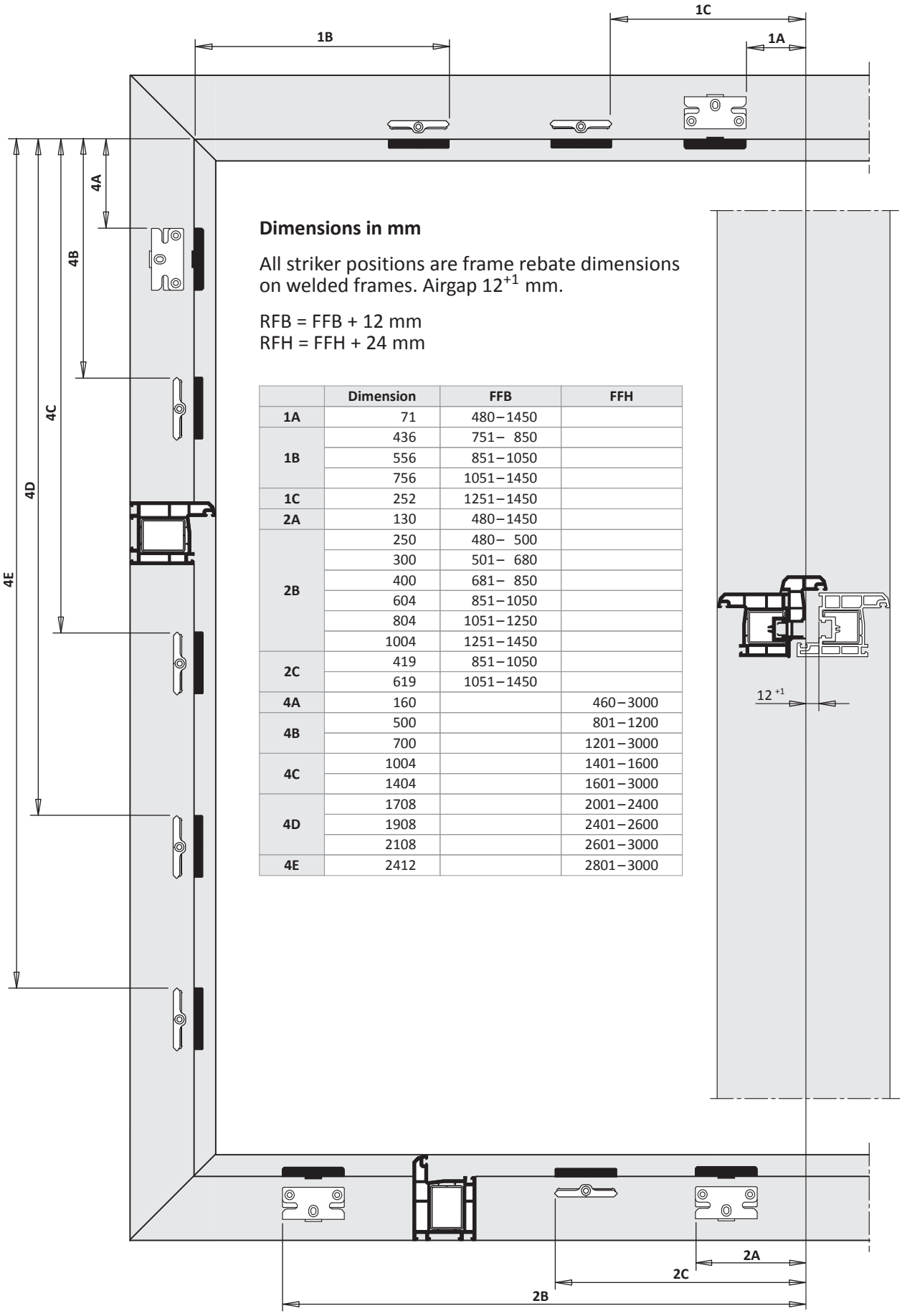
List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+





Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
27	corner hinge AX	Ref. PDB, TBEB41		1	1
28	cover cap AX EL	Ref. PDB, TKEL41		1	1
29	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

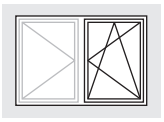
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

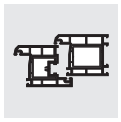
RFB = FFB + 12 mm
RFH = FFH + 24 mm

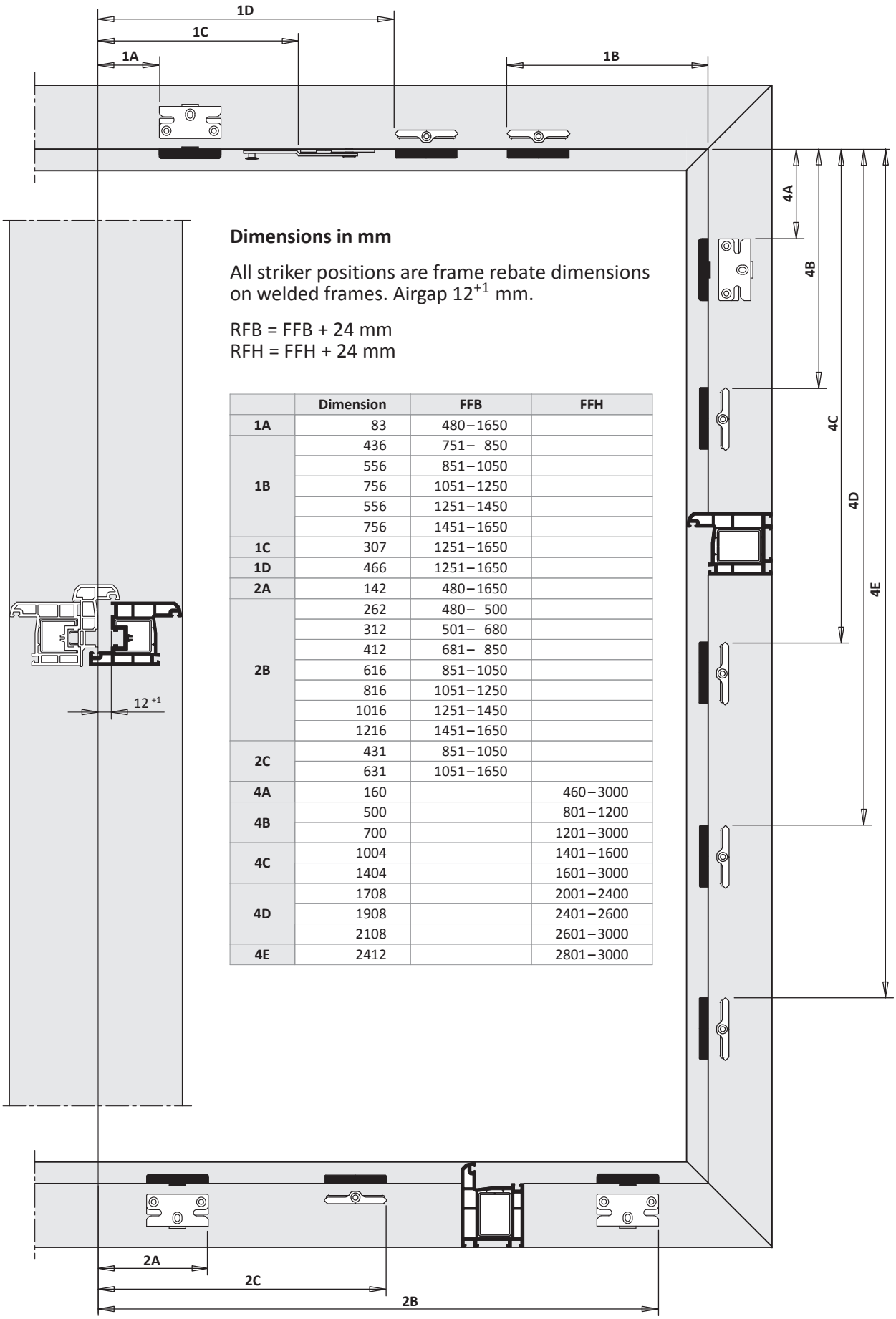
	Dimension	FFB	FFH
1A	71	480–1450	
1B	436	751– 850	
	556	851–1050	
	756	1051–1450	
1C	252	1251–1450	
2A	130	480–1450	
2B	250	480– 500	
	300	501– 680	
	400	681– 850	
	604	851–1050	
	804	1051–1250	
	1004	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		460–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+







Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	436	751– 850	
	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	480–1650	
2B	262	480– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1216	1451–1650	
2C	431	851–1050	
	631	1051–1650	
4A	160		460–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

Bottom inliner

1-sash square tilt-turn	H48.TAFKFK2+S010EN	6 - 3
2-sash square tilt-turn/turn DS 16	H48.TAFKFK2+S011EN	6 - 9

Bottom double cam SB R-RS

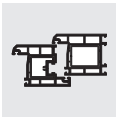
1-sash square tilt-turn	H48.TAFKFK2+S403EN	6 - 19
2-sash square tilt-turn/turn DS 16	H48.TAFKFK2+S404EN	6 - 25

Locking-points distance 700

1-sash square tilt-turn	H48.TAFKFK2+S303EN	6 - 35
2-sash square tilt-turn/turn DS 16	H48.TAFKFK2+S304EN	6 - 41

TITAN AF

Installation instructions



RC2

1-sash square tilt-turn

PVC

RC2

fixed handle position

Hinge side axxent 24+

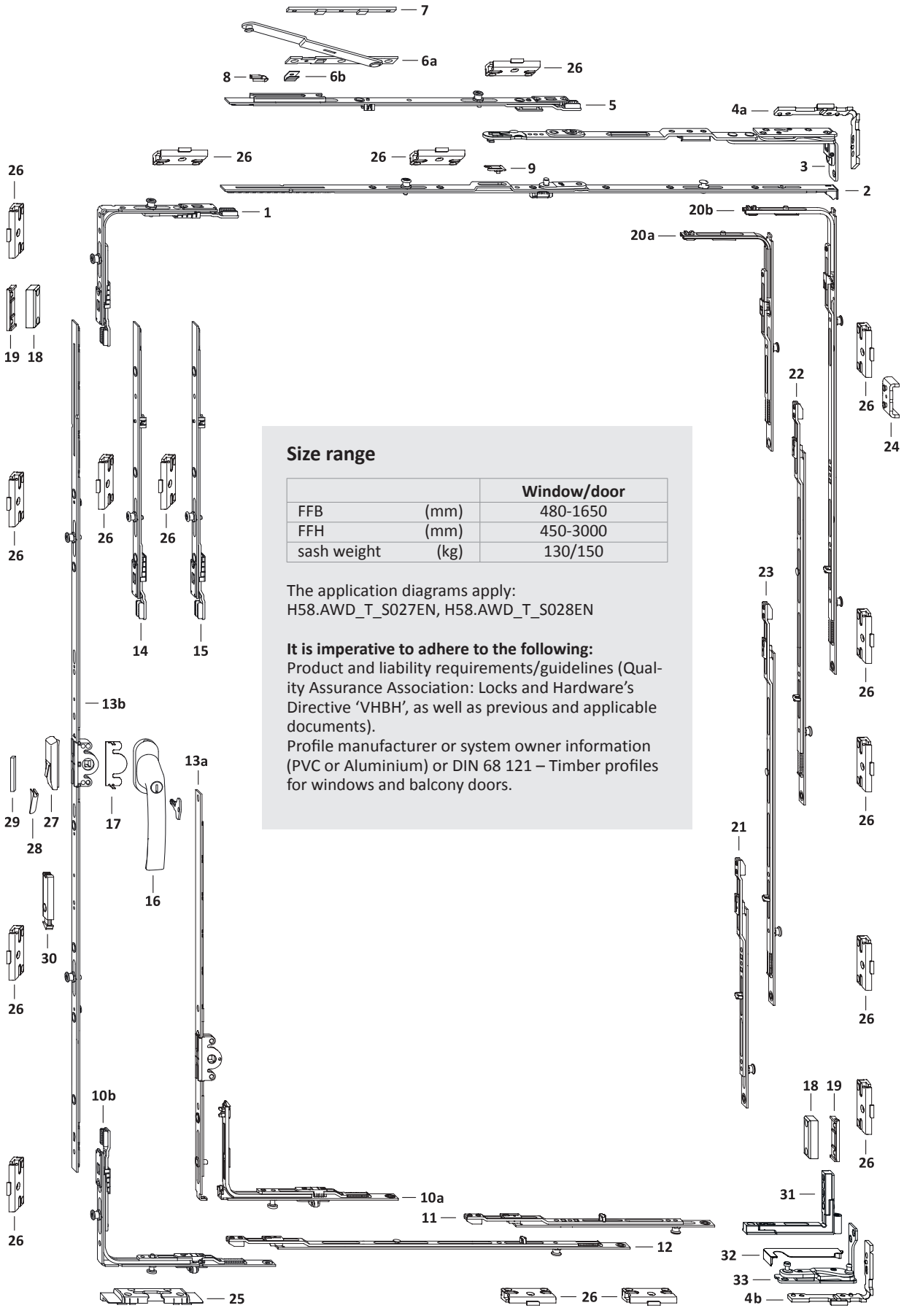
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout

1-sash square tilt-turn
PVC GK Hinge side axxent 24+

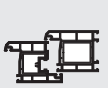


Size range

		Window/door
FFB	(mm)	480-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

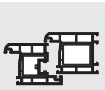
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							25	26
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	480–1650				2
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	480–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	450– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	450– 900			
10a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	480–1250	450– 600		1	
10b	corn.drive AF VSU/K+ FH 1S 1RS A0055	TEUL5020- ...	1	480–1650	601–3000		1	1
11	extension sz 1+ 1RS	TVSO0200- ...	1	480– 500				1
	extension sz 2+ 1RS	TVSL0320- ...		501– 680				1
	extension sz 3+ 1RS	TVSL0330- ...		681– 850				1
	extension sz 2+ 1RS	TVSL0320- ...		851–1250				1
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450				1
	extension sz 3+ 1RS	TVSL0330- ...		1451–1650				1
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
13a	gear 15 sz 30/G180	TGKK3010- ...	1	480–1250	450– 600	180		
13b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		2
14	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			1
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
15	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
16	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		450–3000			
17	anti-drill guard E	TGBS0010- ...	1		450–3000			
18	Air gap limiter	Ref. PDB, FRFL	2		450–3000			
19	packer RB/FPS	Ref. PDB, FRUP02	2		450–3000			
20a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450– 800			1
20b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
21	extension sz 2+ 1RS	TVSL0320- ...	1		601– 800			1
	extension sz 1+ 1RS	TVSO0200- ...			801–1000			1
	extension sz 3+ 1RS	TVSL0330- ...			1001–1400			1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1800			1
	extension sz 4+ 1RS	TVSL0340- ...			1801–2000			1
	extension sz 3+ 1RS	TVSL0330- ...			2001–2200			1
	extension sz 5+ 1RS	TVSL0350- ...			2201–2400			1
	extension sz 4+ 1RS	TVSL0340- ...			2401–2600			1
	extension sz 4+ 1RS	TVSL0340- ...			2601–2800			1
	extension sz 3+ 1RS	TVSL0330- ...			2801–3000			1

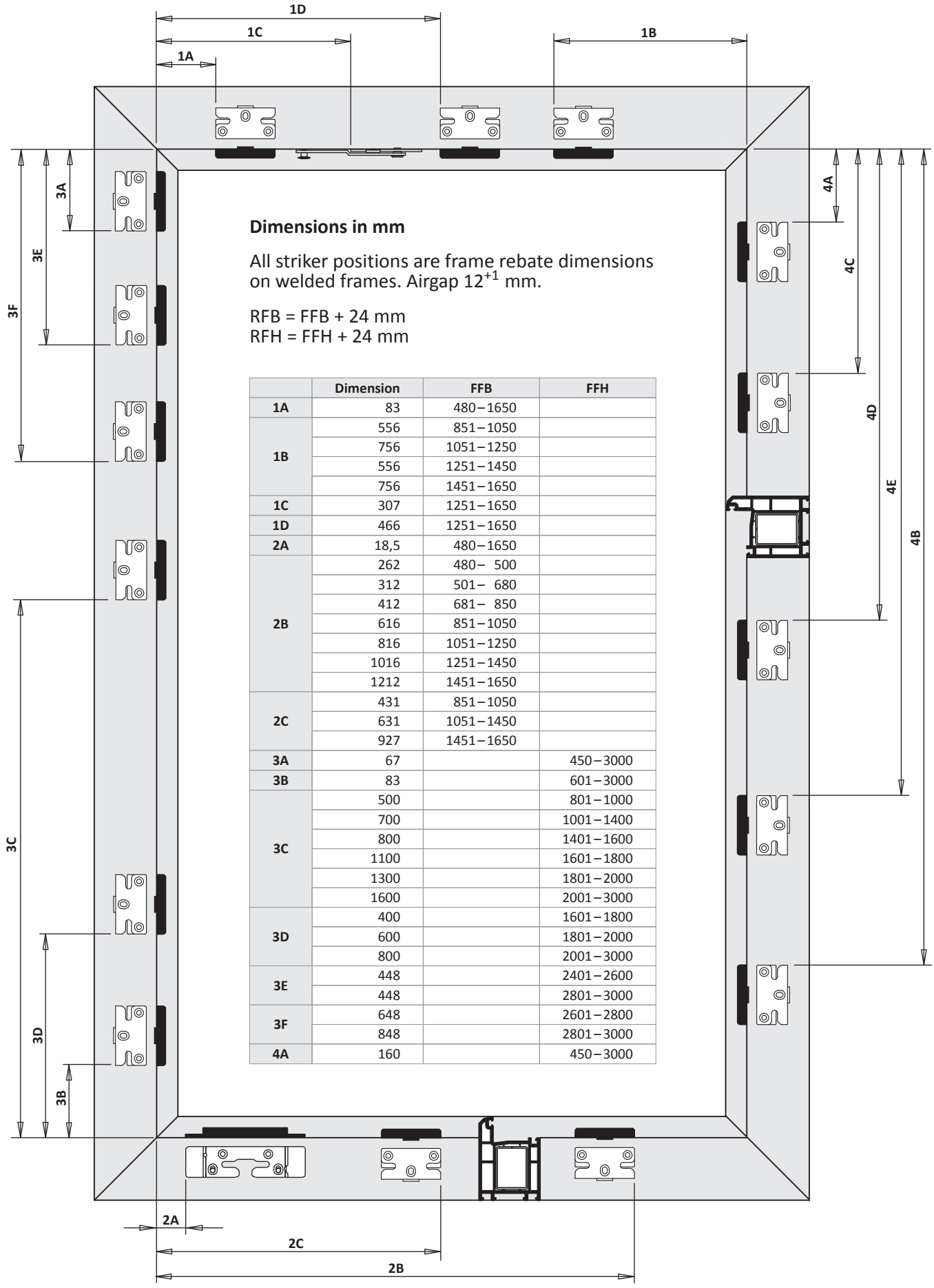
List of fittings

1-sash square tilt-turn
PVC GK Hinge side axxent 24+



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							25	26
22	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000			1
23	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000			1
24	anti-lift device	Ref. PDB, TFAH	1		450 – 3000			
25	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
26	striker plate S-RS	Ref. PDB, TRSK						
on request								
27	mishandling device	TFBS0010- ...	1					
28	pressure piece	Ref. PDB, TFFD	1					
29	stop	Ref. PDB, FRZF01	1					
30	snapper rh.	TFST0021- ...	1		1801 – 3000			
	snapper lh.	TFST0022- ...			1801 – 3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
31	corner hinge AX	Ref. PDB, TBEB41		1	1
32	cover cap AX EL	Ref. PDB, TKEL41		1	1
33	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

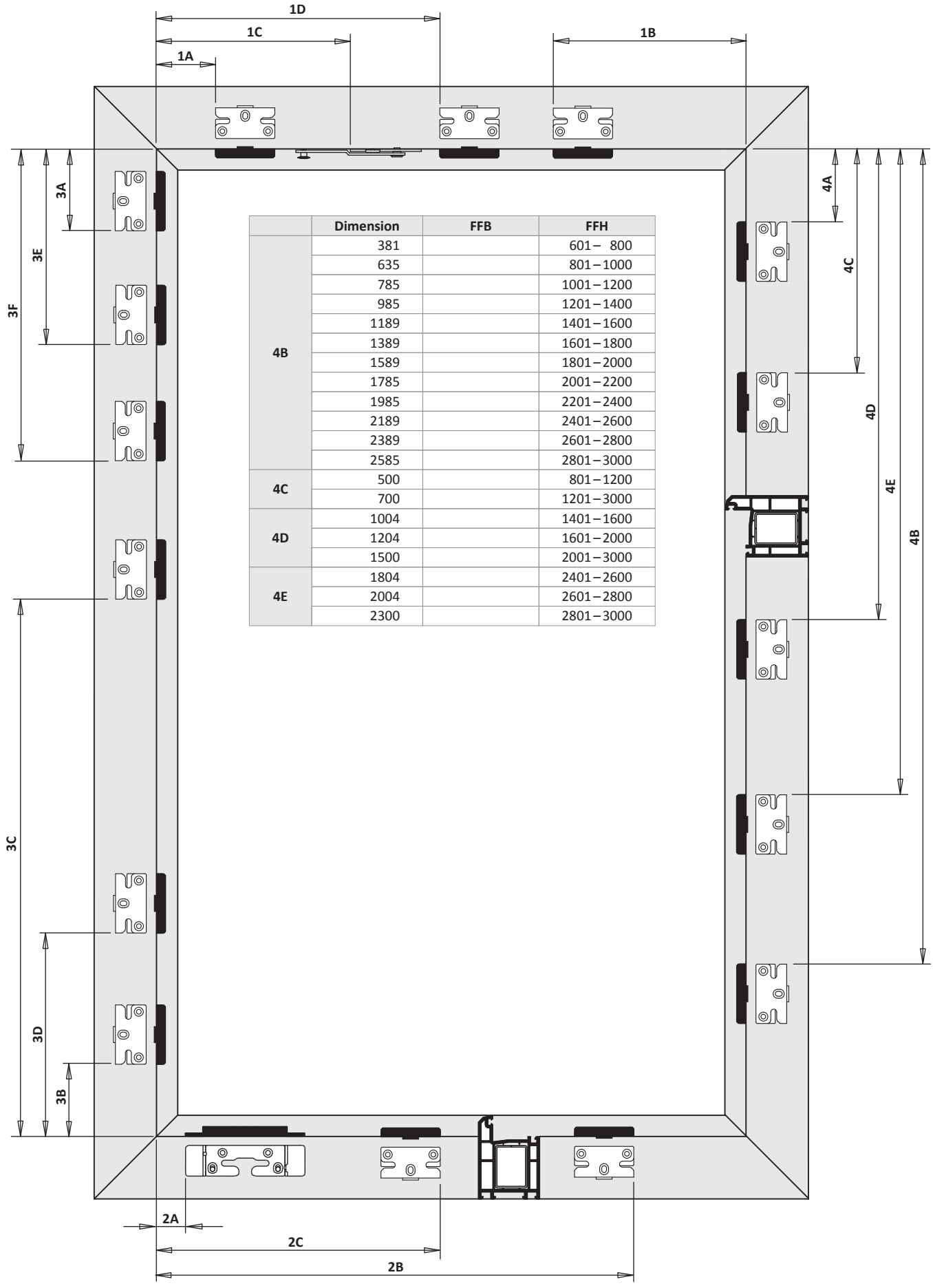
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	480–1650	
2B	262	480– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1212	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67		450–3000
3B	83		601–3000
3C	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3D	400		1601–1800
	600		1801–2000
	800		2001–3000
3E	448		2401–2600
	448		2801–3000
3F	648		2601–2800
	848		2801–3000
4A	160		450–3000

Frame dimensions

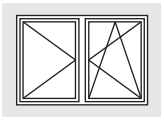
1-sash square tilt-turn
PVC GK Hinge side axxent 24+

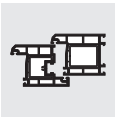


	Dimension	FFB	FFH
4B	381		601 – 800
	635		801 – 1000
	785		1001 – 1200
	985		1201 – 1400
	1189		1401 – 1600
	1389		1601 – 1800
	1589		1801 – 2000
	1785		2001 – 2200
	1985		2201 – 2400
	2189		2401 – 2600
	2389		2601 – 2800
	2585		2801 – 3000
4C	500		801 – 1200
	700		1201 – 3000
4D	1004		1401 – 1600
	1204		1601 – 2000
	1500		2001 – 3000
4E	1804		2401 – 2600
	2004		2601 – 2800
	2300		2801 – 3000

TITAN AF

Installation instructions





RC2

2-sash square tilt-turn/turn DS 16

PVC

RC2

fixed handle position

Hinge side axxent 24+

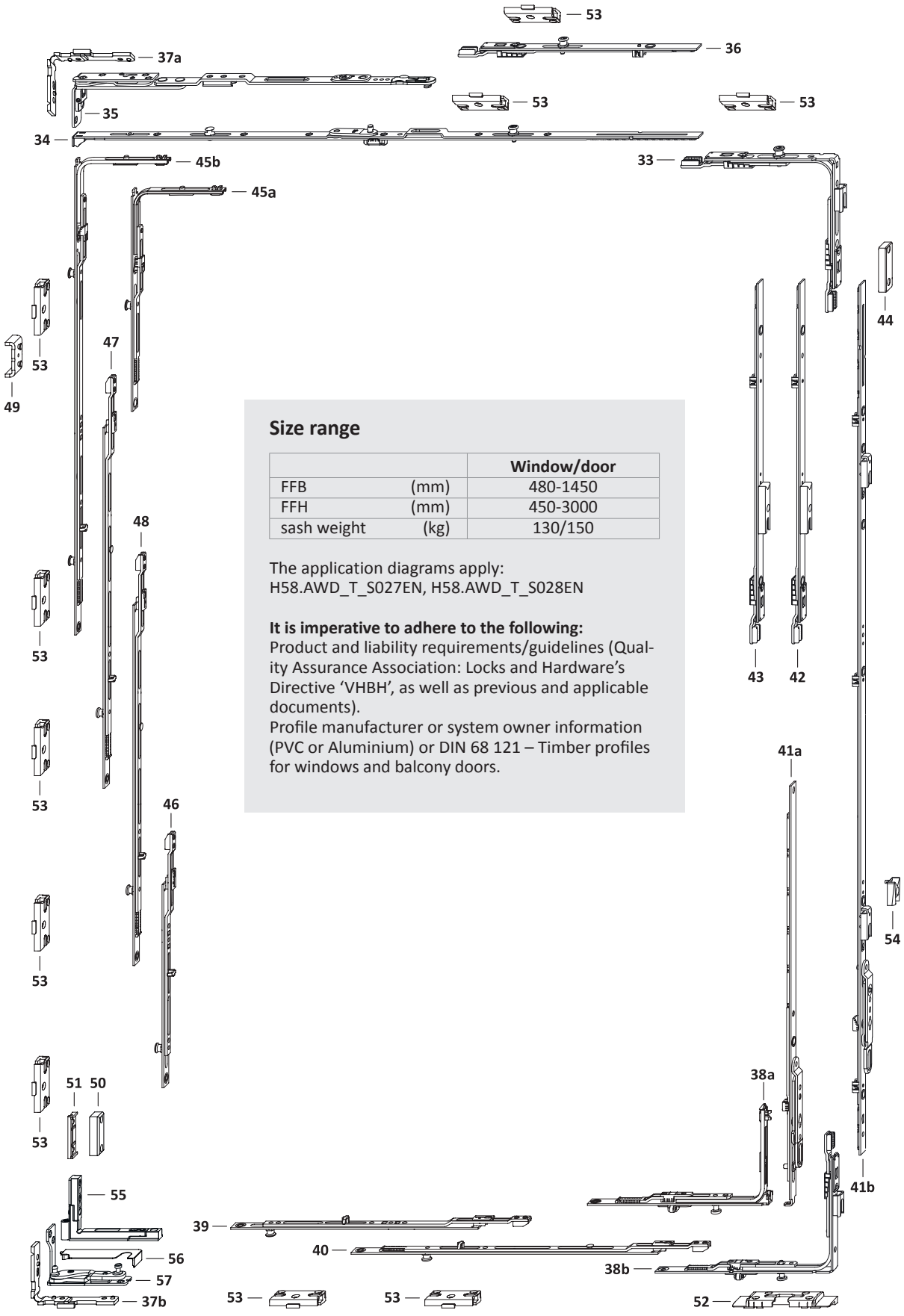
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+

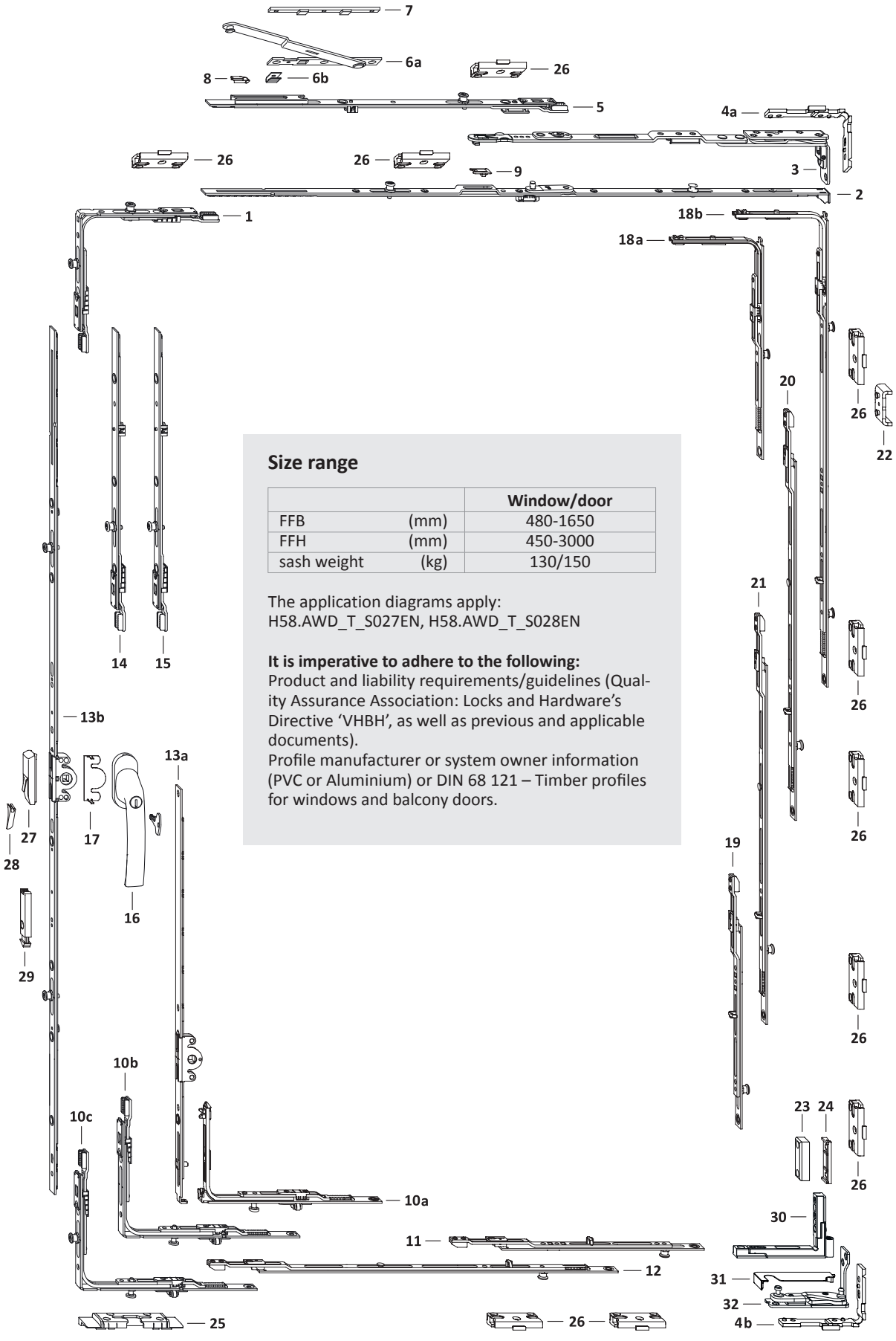


Size range

		Window/door
FFB	(mm)	480-1450
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

		Window/door
FFB	(mm)	480-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
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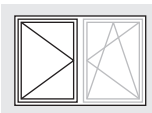
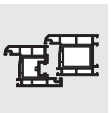
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+



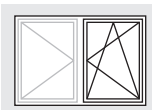


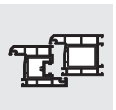
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	52	53
33	corn.drive AF VSO WK2 SB 1RS	TEUL4080- ...	1	480–1450				1
34	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1450				1
35	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1050				
36	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
37	crt. accessories AX	Ref. PDB, TMZV41	1	480–1450				
38a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	480–1450	450– 800		1	
38b	corn.drive AF VSU/K+WK2 FHSB1S	TEUL5110- ...	1	480–1450	801–3000		1	
39	extension sz 1+ 1RS	TVSO0200- ...	1	480– 500				1
	extension sz 2+ 1RS	TVSL0320- ...		501– 680				1
	extension sz 3+ 1RS	TVSL0330- ...		681– 850				1
	extension sz 2+ 1RS	TVSL0320- ...		851–1250				1
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450				1
40	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
41a	sec.sash gear 16 sz 30	TGKS0010- ...	1	480–1250	450– 600	180		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300		
41b	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400		
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500		
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600		
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401–1600	700		
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700		
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000		
	sec.sash gear 16AF200/G10002SB	TGKS4110- ...			2001–3000	1000		
42	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2401–2600			
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
43	linkage AF sz 2 1SB-RS	TZKS1030- ...	1		2601–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
44	air gap limiter F ..	TFFB0010- ...	1		450–3000			
45a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450– 800			1
45b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
46	extension sz 2+ 1RS	TVSL0320- ...	1		601– 800			1
	extension sz 1+ 1RS	TVSO0200- ...			801–1000			1
	extension sz 3+ 1RS	TVSL0330- ...			1001–1400			1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1800			1
	extension sz 4+ 1RS	TVSL0340- ...			1801–2000			1
	extension sz 3+ 1RS	TVSL0330- ...			2001–2200			1
	extension sz 5+ 1RS	TVSL0350- ...			2201–2400			1
	extension sz 4+ 1RS	TVSL0340- ...			2401–2600			1
	extension sz 4+ 1RS	TVSL0340- ...			2601–2800			1
	extension sz 3+ 1RS	TVSL0330- ...			2801–3000			1
47	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
48	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
49	anti-lift device	Ref. PDB, TFAH	1		450–3000			
50	Air gap limiter	Ref. PDB, FRFL	1		450–3000			
51	packer RB/FPS	Ref. PDB, FRUP02	1		450–3000			
52	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
53	striker plate S-RS	Ref. PDB, TRSK						
on request								
54	striker snapper AF A0767	TRST0100- ...	1		1801–3000			

Hinge side turning points					
Pos.	**Description**	**Part number**		**required as per sash weight**	
		surface TS	RAL7037	130 kg	150 kg
55	corner hinge AX	Ref. PDB, TBEB41		1	1
56	cover cap AX EL	Ref. PDB, TKEL41		1	1
57	bottom hinge AX	Ref. PDB, TBEV41		1	1

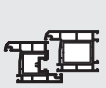
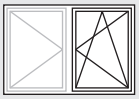
List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							25	26
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	480 – 1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480 – 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681 – 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851 – 1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051 – 1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251 – 1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451 – 1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480 – 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681 – 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851 – 1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051 – 1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251 – 1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451 – 1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	480 – 1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251 – 1650				1
6	additional stay	Ref. PDB, TSZS	1	1251 – 1650				
7	packer Z	Ref. PDB, FRUP01	1	1251 – 1650				
8	tilt restr. additional stay ..	889008	1	1251 – 1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681 – 1050	450 – 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051 – 1250	450 – 900			
10a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	480 – 1250	450 – 600		1	
10b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	480 – 1650	601 – 800		1	
10c	corn.drive AF VSU/K+ FH 1S 1RS A0055	TEUL5020- ...	1	480 – 1650	801 – 3000		1	
11	extension sz 1+ 1RS	TVSO0200- ...	1	480 – 500				1
	extension sz 2+ 1RS	TVSL0320- ...		501 – 680				1
	extension sz 3+ 1RS	TVSL0330- ...		681 – 850				1
	extension sz 2+ 1RS	TVSL0320- ...		851 – 1250				1
	extension sz 4+ 1RS	TVSL0340- ...		1251 – 1450				1
	extension sz 3+ 1RS	TVSL0330- ...		1451 – 1650				1
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451 – 1650				1
13a	gear 15 sz 30/G180	TGKK3010- ...	1	480 – 1250	450 – 600	180		
13b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601 – 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801 – 1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001 – 1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201 – 1400	600		
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401 – 1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601 – 1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801 – 2000	1000		
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001 – 3000	1000		
14	linkage AF sz 1	TZZS0150- ...	1		2201 – 2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401 – 2600			
	linkage AF sz 1	TZZS0150- ...			2601 – 2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000			
15	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601 – 2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000			
16	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		450 – 3000			
17	anti-drill guard E	TGBS0010- ...	1		450 – 3000			
18a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450 – 800			1
18b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000			2
19	extension sz 2+ 1RS	TVSL0320- ...	1		601 – 800			1
	extension sz 1+ 1RS	TVSO0200- ...			801 – 1000			1
	extension sz 3+ 1RS	TVSL0330- ...			1001 – 1400			1
	extension sz 2+ 1RS	TVSL0320- ...			1401 – 1800			1
	extension sz 4+ 1RS	TVSL0340- ...			1801 – 2000			1
	extension sz 3+ 1RS	TVSL0330- ...			2001 – 2200			1
	extension sz 5+ 1RS	TVSL0350- ...			2201 – 2400			1
	extension sz 4+ 1RS	TVSL0340- ...			2401 – 2600			1
	extension sz 4+ 1RS	TVSL0340- ...			2601 – 2800			1
	extension sz 3+ 1RS	TVSL0330- ...			2801 – 3000			1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+

TITAN AF

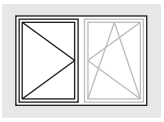
RC2

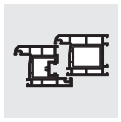
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							25	26
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000			1
21	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000			1
22	anti-lift device	Ref. PDB, TFAH	1		450 – 3000			
23	Air gap limiter	Ref. PDB, FRFL	1		450 – 3000			
24	packer RB/FPS	Ref. PDB, FRUP02	1		450 – 3000			
25	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
26	striker plate S-RS	Ref. PDB, TRSK						
on request								
27	mishandling device	TFBS0010- ...	1		601 – 3000			
28	pressure piece	Ref. PDB, TFFD	1		601 – 3000			
29	snapper rh.	TFST0021- ...	1		1801 – 3000			
	snapper lh.	TFST0022- ...			1801 – 3000			

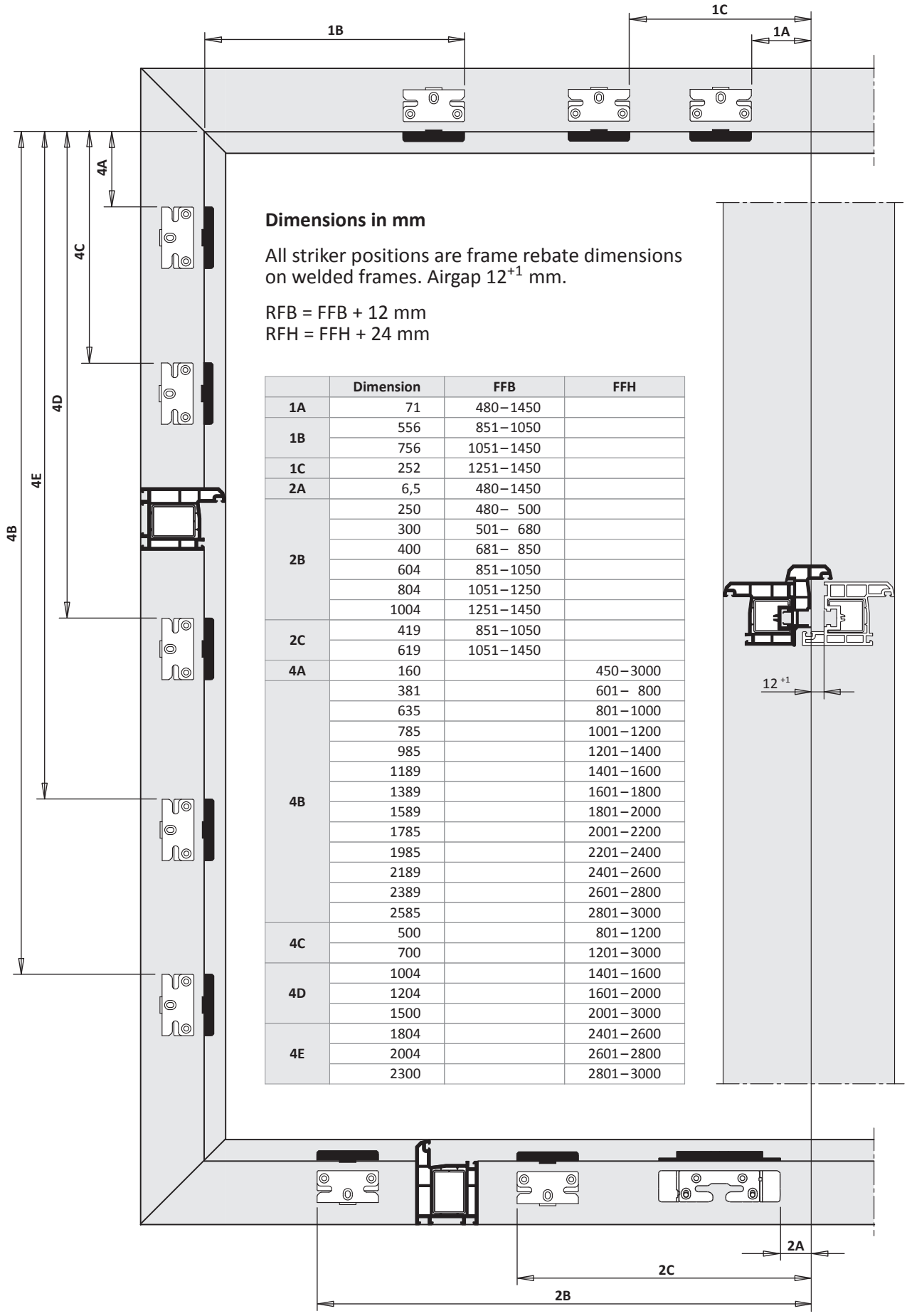
Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
30	corner hinge AX	Ref. PDB, TBEB41		1	1
31	cover cap AX EL	Ref. PDB, TKEL41		1	1
32	bottom hinge AX	Ref. PDB, TBEV41		1	1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





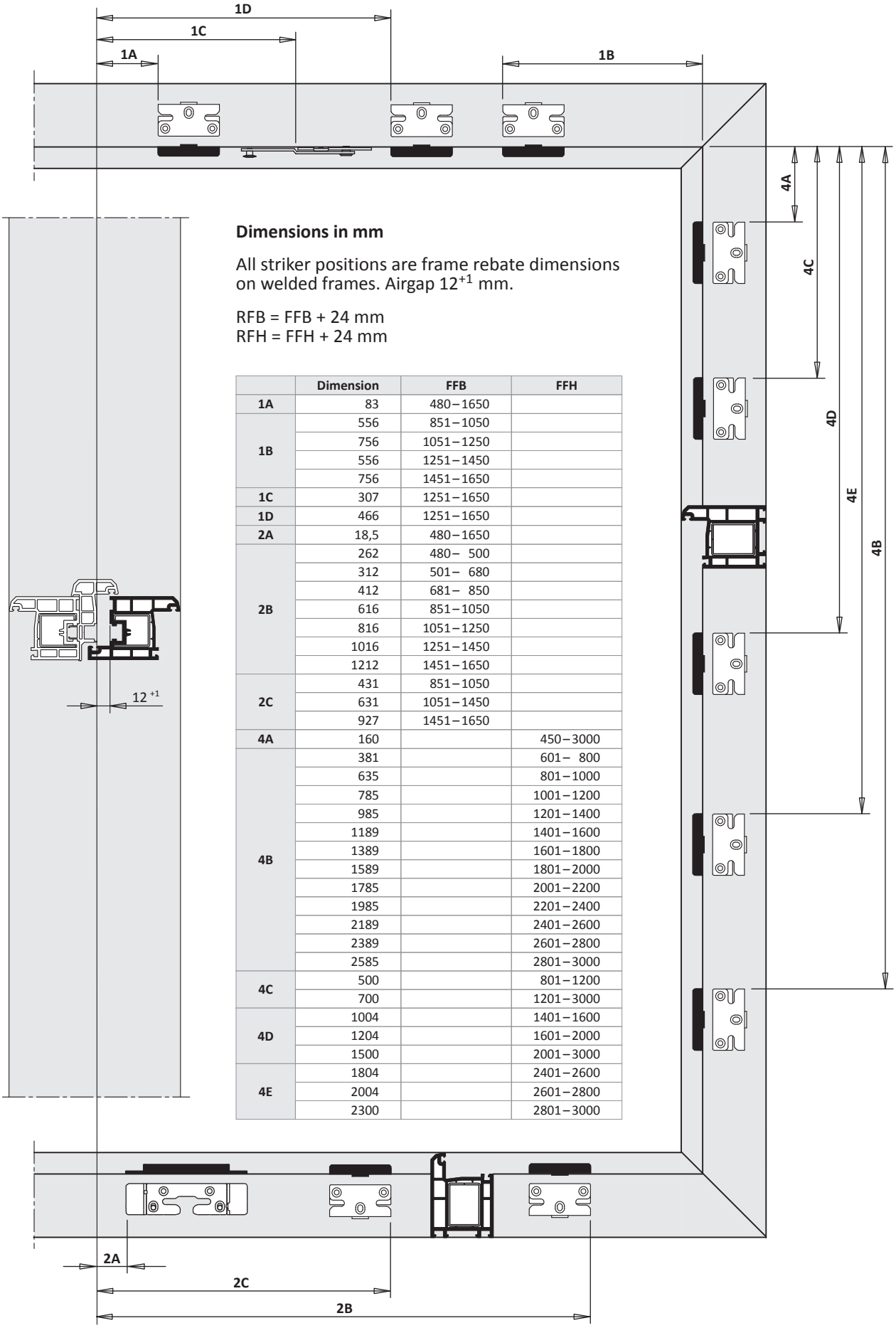


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	480–1450	
1B	556	851–1050	
	756	1051–1450	
1C	252	1251–1450	
2A	6,5	480–1450	
2B	250	480– 500	
	300	501– 680	
	400	681– 850	
	604	851–1050	
	804	1051–1250	
	1004	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		450–3000
4B	381		601– 800
	635		801–1000
	785		1001–1200
	985		1201–1400
	1189		1401–1600
	1389		1601–1800
	1589		1801–2000
	1785		2001–2200
	1985		2201–2400
	2189		2401–2600
	2389		2601–2800
	2585		2801–3000
4C	500		801–1200
	700		1201–3000
4D	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4E	1804		2401–2600
	2004		2601–2800
	2300		2801–3000



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480 – 1650	
1B	556	851 – 1050	
	756	1051 – 1250	
	556	1251 – 1450	
	756	1451 – 1650	
1C	307	1251 – 1650	
1D	466	1251 – 1650	
2A	18,5	480 – 1650	
2B	262	480 – 500	
	312	501 – 680	
	412	681 – 850	
	616	851 – 1050	
	816	1051 – 1250	
	1016	1251 – 1450	
	1212	1451 – 1650	
2C	431	851 – 1050	
	631	1051 – 1450	
	927	1451 – 1650	
4A	160		450 – 3000
4B	381		601 – 800
	635		801 – 1000
	785		1001 – 1200
	985		1201 – 1400
	1189		1401 – 1600
	1389		1601 – 1800
	1589		1801 – 2000
	1785		2001 – 2200
	1985		2201 – 2400
	2189		2401 – 2600
	2389		2601 – 2800
	2585		2801 – 3000
4C	500		801 – 1200
	700		1201 – 3000
4D	1004		1401 – 1600
	1204		1601 – 2000
	1500		2001 – 3000
4E	1804		2401 – 2600
	2004		2601 – 2800
	2300		2801 – 3000

TITAN AF

Installation instructions

RC2

1-sash square tilt-turn

PVC

RC2

fixed handle position

Hinge side axxent 24+

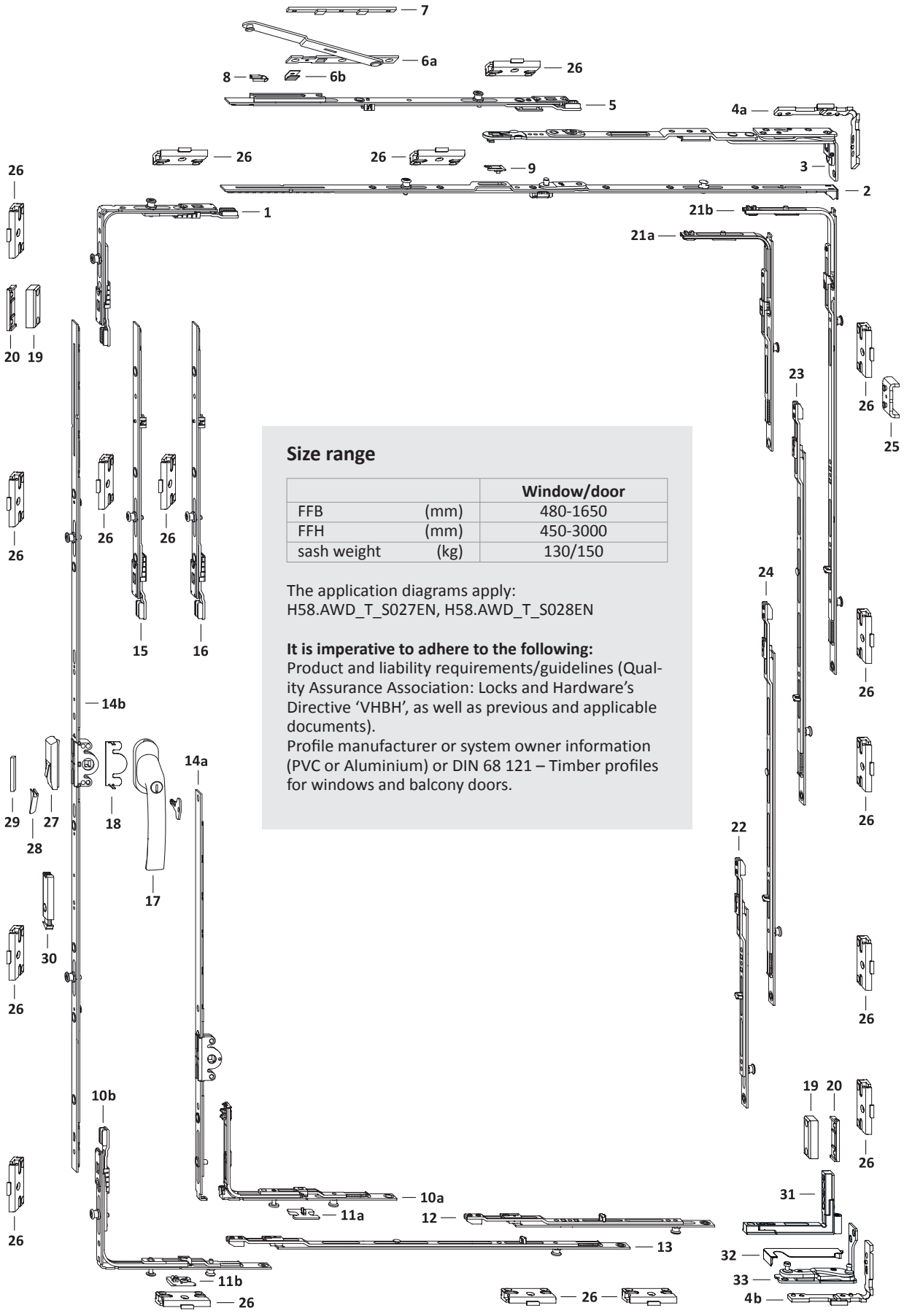
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout

1-sash square tilt-turn
PVC GK Hinge side axxent 24+

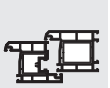


Size range

		Window/door
FFB	(mm)	480-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

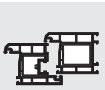
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							26
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	480 – 1650			2
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480 – 680			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681 – 850			
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851 – 1050			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051 – 1250			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251 – 1450			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451 – 1650			1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480 – 680			
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681 – 850			
	stay arm AX sz 4	Ref. PDB, TSAV44		851 – 1050			
	stay arm AX sz 5	Ref. PDB, TSAV45		1051 – 1250			
	stay arm AX sz 4	Ref. PDB, TSAV44		1251 – 1450			
	stay arm AX sz 5	Ref. PDB, TSAV45		1451 – 1650			
4	crt. accessories AX	Ref. PDB, TMZV41	1	480 – 1650			
5	linkage additional stay 1RS	TZOK1010- ...	1	1251 – 1650			1
6	additional stay	Ref. PDB, TSZS	1	1251 – 1650			
7	packer Z	Ref. PDB, FRUP01	1	1251 – 1650			
8	tilt restr. additional stay ..	889008	1	1251 – 1650			
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681 – 1050	450 – 900		
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051 – 1250	450 – 900		
10a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480 – 1250	450 – 600		1
10b	corn.drive AF VSU/K 56+ 1S 2RS	TEUL5040- ...	1	480 – 1650	601 – 3000		2
11a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480 – 1250	450 – 600		
11b	run up block AF 13 mm 13	TFFH0080- ...	1	480 – 1650	601 – 3000		
12	extension sz 1+ 1RS	TVSO0200- ...	1	480 – 500			1
	extension sz 2+ 1RS	TVSL0320- ...		501 – 680			1
	extension sz 3+ 1RS	TVSL0330- ...		681 – 850			1
	extension sz 2+ 1RS	TVSL0320- ...		851 – 1250			1
	extension sz 4+ 1RS	TVSL0340- ...		1251 – 1450			1
	extension sz 3+ 1RS	TVSL0330- ...		1451 – 1650			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451 – 1650			1
14a	gear 15 sz 30/G180	TGKK3010- ...	1	480 – 1250	450 – 600	180	
14b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601 – 800	300	
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801 – 1000	400	1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001 – 1200	500	1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201 – 1400	600	1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401 – 1600	700	1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601 – 1800	700	2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801 – 2000	1000	2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001 – 3000	1000	2
15	linkage AF sz 1	TZZS0150- ...	1		2201 – 2400		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401 – 2600		1
	linkage AF sz 1	TZZS0150- ...			2601 – 2800		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000		1
16	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601 – 2800		1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000		1
17	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		450 – 3000		
18	anti-drill guard E	TGBS0010- ...	1		450 – 3000		
19	Air gap limiter	Ref. PDB, FRFL	2		450 – 3000		
20	packer RB/FPS	Ref. PDB, FRUP02	2		450 – 3000		
21a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450 – 800		1
21b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000		2

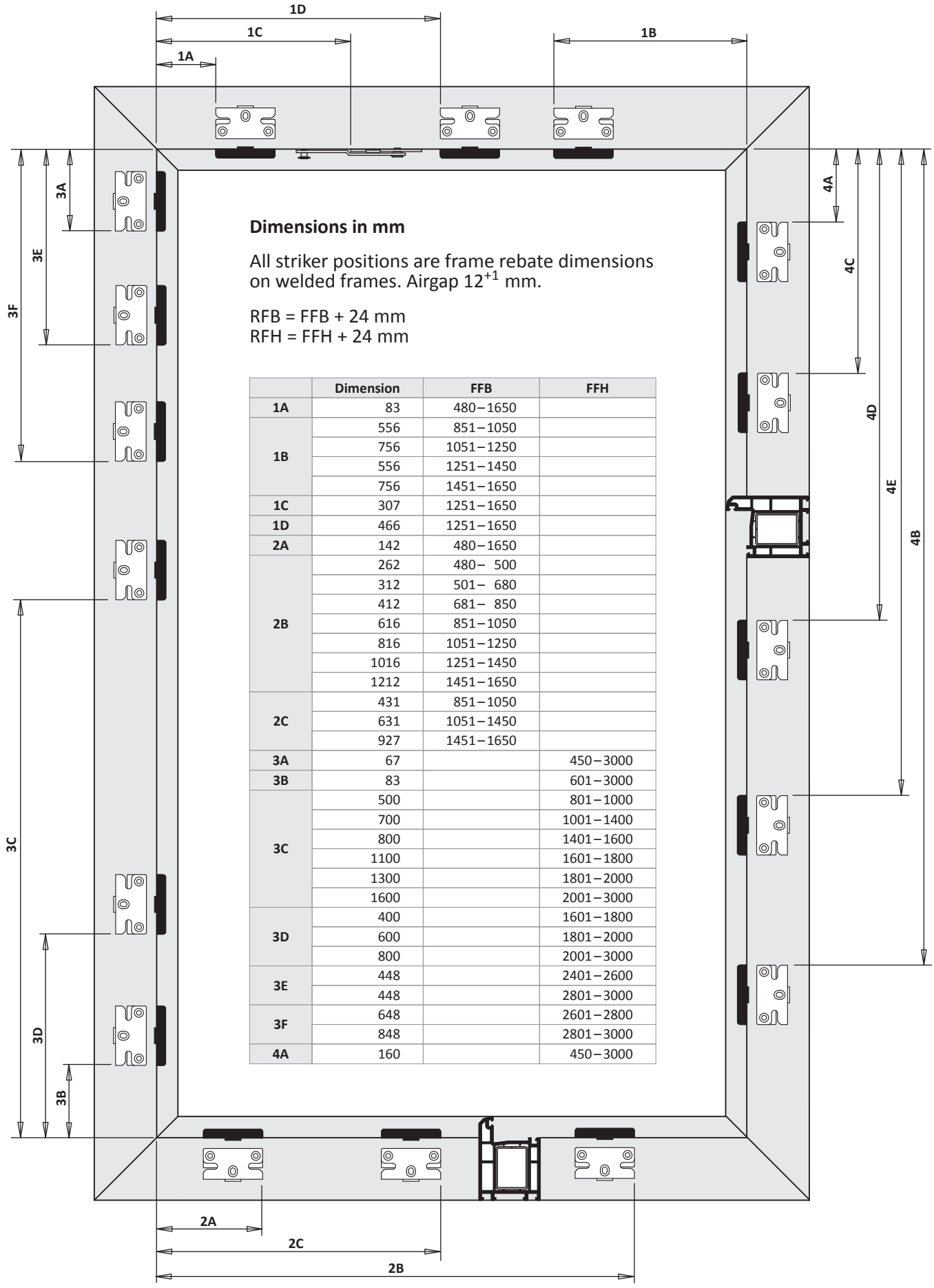
List of fittings

1-sash square tilt-turn
PVC GK Hinge side axxent 24+



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							26
22	extension sz 2+ 1RS	TVSL0320- ...	1		601– 800		1
	extension sz 1+ 1RS	TVSO0200- ...			801–1000		1
	extension sz 3+ 1RS	TVSL0330- ...			1001–1400		1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1800		1
	extension sz 4+ 1RS	TVSL0340- ...			1801–2000		1
	extension sz 3+ 1RS	TVSL0330- ...			2001–2200		1
	extension sz 5+ 1RS	TVSL0350- ...			2201–2400		1
	extension sz 4+ 1RS	TVSL0340- ...			2401–2600		1
	extension sz 4+ 1RS	TVSL0340- ...			2601–2800		1
	extension sz 3+ 1RS	TVSL0330- ...			2801–3000		1
23	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000		1
24	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000		1
25	anti-lift device	Ref. PDB, TFAH	1		450–3000		
26	striker plate S-RS	Ref. PDB, TRSK					
on request							
27	mishandling device	TFBS0010- ...	1				
28	pressure piece	Ref. PDB, TFFD	1				
29	stop	Ref. PDB, FRZF01	1				
30	snapper rh.	TFST0021- ...	1		1801–3000		
	snapper lh.	TFST0022- ...			1801–3000		

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
31	corner hinge AX	Ref. PDB, TBEB41		1	1
32	cover cap AX EL	Ref. PDB, TKEL41		1	1
33	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

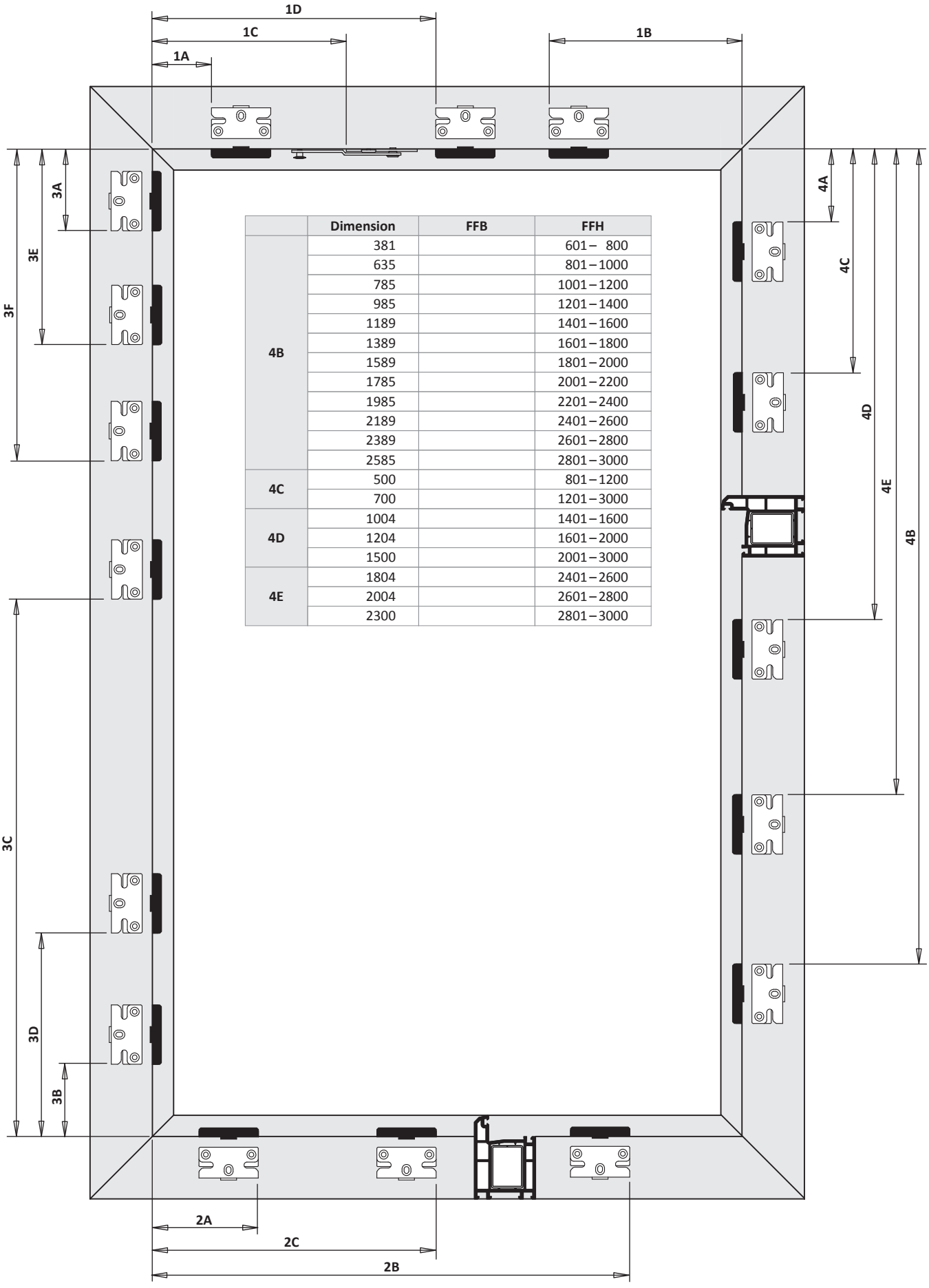
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	480–1650	
2B	262	480– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1212	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67		450–3000
3B	83		601–3000
3C	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3D	400		1601–1800
	600		1801–2000
	800		2001–3000
3E	448		2401–2600
	448		2801–3000
3F	648		2601–2800
	848		2801–3000
4A	160		450–3000

Frame dimensions

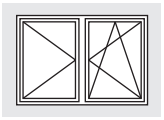
1-sash square tilt-turn
PVC GK Hinge side axxent 24+

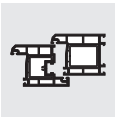


	Dimension	FFB	FFH
4B	381		601 – 800
	635		801 – 1000
	785		1001 – 1200
	985		1201 – 1400
	1189		1401 – 1600
	1389		1601 – 1800
	1589		1801 – 2000
	1785		2001 – 2200
	1985		2201 – 2400
	2189		2401 – 2600
	2389		2601 – 2800
	2585		2801 – 3000
4C	500		801 – 1200
	700		1201 – 3000
4D	1004		1401 – 1600
	1204		1601 – 2000
	1500		2001 – 3000
4E	1804		2401 – 2600
	2004		2601 – 2800
	2300		2801 – 3000

TITAN AF

Installation instructions





RC2

2-sash square tilt-turn/turn DS 16

PVC

RC2

fixed handle position

Hinge side axxent 24+

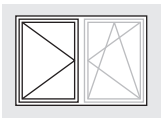
surface TS

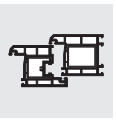
backset 15 mm

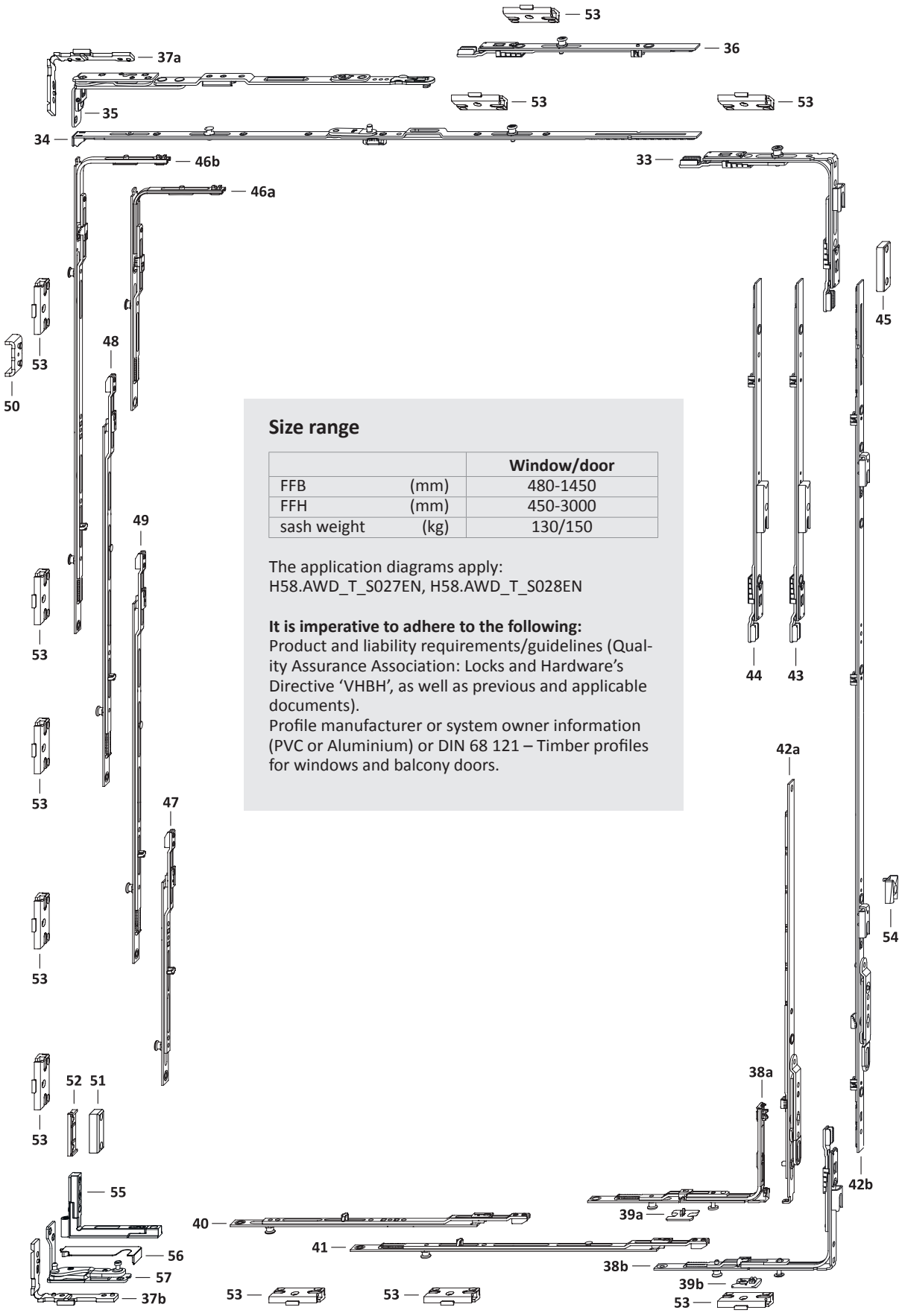
Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+







Size range

		Window/door
FFB	(mm)	480-1450
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
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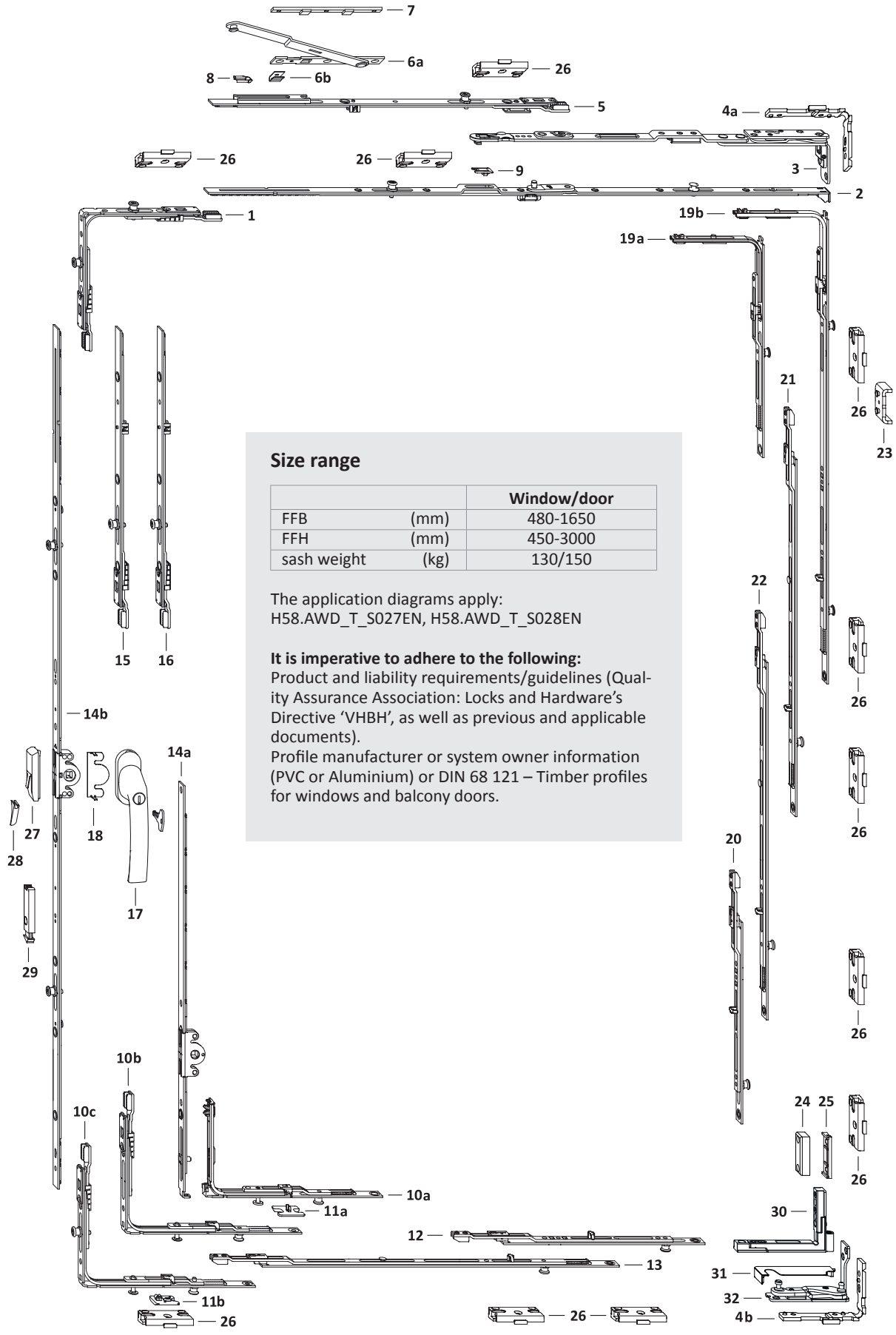
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

		Window/door
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sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

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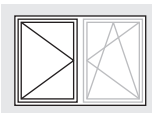
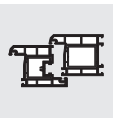
List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





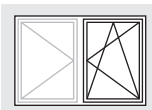
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
						In the main sash	53
33	corn.drive AF VSO WK2 SB 1RS	TEUL4080- ...	1	480–1450			1
34	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850			
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1450			1
35	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680			
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850			
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050			
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1050			
36	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450			1
37	crt. accessories AX	Ref. PDB, TMZV41	1	480–1450			
38a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480–1450	450– 800		1
38b	corn.drive AFVSU/K 56+ SB1S1RS	TEUL5120- ...	1	480–1450	801–3000		1
39a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480–1450	450– 800		
39b	run up block AF 13 mm 13	TFFH0080- ...	1	480–1450	801–3000		
40	extension sz 1+ 1RS	TVSO0200- ...	1	480– 500			1
	extension sz 2+ 1RS	TVSL0320- ...		501– 680			1
	extension sz 3+ 1RS	TVSL0330- ...		681– 850			1
	extension sz 2+ 1RS	TVSL0320- ...		851–1250			1
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450			1
41	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450			1
42a	sec.sash gear 16 sz 30	TGKS0010- ...	1	480–1250	450– 600	180	
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300	
42b	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400	
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500	
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600	
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401–1600	700	
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700	
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000	
	sec.sash gear 16AF200/G10002SB	TGKS4110- ...			2001–3000	1000	
43	linkage AF sz 1	TZZS0150- ...	1		2201–2400		
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2401–2600		
	linkage AF sz 1	TZZS0150- ...			2601–2800		
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000		
44	linkage AF sz 2 1SB-RS	TZKS1030- ...	1		2601–2800		
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000		
45	air gap limiter F ..	TFFB0010- ...	1		450–3000		
46a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450– 800		1
46b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
47	extension sz 2+ 1RS	TVSL0320- ...	1		601– 800		1
	extension sz 1+ 1RS	TVSO0200- ...			801–1000		1
	extension sz 3+ 1RS	TVSL0330- ...			1001–1400		1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1800		1
	extension sz 4+ 1RS	TVSL0340- ...			1801–2000		1
	extension sz 3+ 1RS	TVSL0330- ...			2001–2200		1
	extension sz 5+ 1RS	TVSL0350- ...			2201–2400		1
	extension sz 4+ 1RS	TVSL0340- ...			2401–2600		1
	extension sz 4+ 1RS	TVSL0340- ...			2601–2800		1
	extension sz 3+ 1RS	TVSL0330- ...			2801–3000		1
48	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000		1
49	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000		1
50	anti-lift device	Ref. PDB, TFAH	1		450–3000		
51	Air gap limiter	Ref. PDB, FRFL	1		450–3000		
52	packer RB/FPS	Ref. PDB, FRUP02	1		450–3000		
53	striker plate S-RS	Ref. PDB, TRSK					

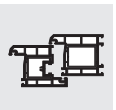
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
						In the main sash	53
on request							
54	striker snapper AF A0767	TRST0100- ...	1		1801 – 3000		

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
55	corner hinge AX	Ref. PDB, TBEB41		1	1
56	cover cap AX EL	Ref. PDB, TKEL41		1	1
57	bottom hinge AX	Ref. PDB, TBEV41		1	1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





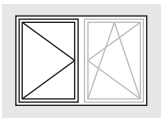
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							26
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	480 – 1650			1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480 – 680			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681 – 850			
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851 – 1050			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051 – 1250			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251 – 1450			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451 – 1650			1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480 – 680			
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681 – 850			
	stay arm AX sz 4	Ref. PDB, TSAV44		851 – 1050			
	stay arm AX sz 5	Ref. PDB, TSAV45		1051 – 1250			
	stay arm AX sz 4	Ref. PDB, TSAV44		1251 – 1450			
	stay arm AX sz 5	Ref. PDB, TSAV45		1451 – 1650			
4	crt. accessories AX	Ref. PDB, TMZV41	1	480 – 1650			
5	linkage additional stay 1RS	TZOK1010- ...	1	1251 – 1650			1
6	additional stay	Ref. PDB, TSZS	1	1251 – 1650			
7	packer Z	Ref. PDB, FRUP01	1	1251 – 1650			
8	tilt restr. additional stay ..	889008	1	1251 – 1650			
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681 – 1050	450 – 900		
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051 – 1250	450 – 900		
10a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480 – 1250	450 – 600		1
10b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480 – 1650	601 – 800		1
10c	corn.drive AF VSU/K 56+ 1S 2RS	TEUL5040- ...	1	480 – 1650	801 – 3000		1
11a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480 – 1250	450 – 600		
11b	run up block AF 13 mm 13	TFFH0080- ...	1	480 – 1650	601 – 3000		
12	extension sz 1+ 1RS	TVSO0200- ...	1	480 – 500			1
	extension sz 2+ 1RS	TVSL0320- ...		501 – 680			1
	extension sz 3+ 1RS	TVSL0330- ...		681 – 850			1
	extension sz 2+ 1RS	TVSL0320- ...		851 – 1250			1
	extension sz 4+ 1RS	TVSL0340- ...		1251 – 1450			1
	extension sz 3+ 1RS	TVSL0330- ...		1451 – 1650			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451 – 1650			1
14a	gear 15 sz 30/G180	TGKK3010- ...	1	480 – 1250	450 – 600	180	
14b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601 – 800	300	
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801 – 1000	400	
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001 – 1200	500	
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201 – 1400	600	
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401 – 1600	700	
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601 – 1800	700	
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801 – 2000	1000	
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001 – 3000	1000	
15	linkage AF sz 1	TZZS0150- ...	1		2201 – 2400		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401 – 2600		
	linkage AF sz 1	TZZS0150- ...			2601 – 2800		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000		
16	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601 – 2800		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000		
17	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		450 – 3000		
18	anti-drill guard E	TGBS0010- ...	1		450 – 3000		
19a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450 – 800		1
19b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000		2

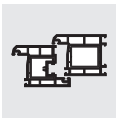
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							26
20	extension sz 2+ 1RS	TVSL0320- ...	1		601– 800		1
	extension sz 1+ 1RS	TVSO0200- ...			801–1000		1
	extension sz 3+ 1RS	TVSL0330- ...			1001–1400		1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1800		1
	extension sz 4+ 1RS	TVSL0340- ...			1801–2000		1
	extension sz 3+ 1RS	TVSL0330- ...			2001–2200		1
	extension sz 5+ 1RS	TVSL0350- ...			2201–2400		1
	extension sz 4+ 1RS	TVSL0340- ...			2401–2600		1
	extension sz 4+ 1RS	TVSL0340- ...			2601–2800		1
	extension sz 3+ 1RS	TVSL0330- ...			2801–3000		1
21	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000		1
22	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000		1
23	anti-lift device	Ref. PDB, TFAH	1		450–3000		
24	Air gap limiter	Ref. PDB, FRFL	1		450–3000		
25	packer RB/FPS	Ref. PDB, FRUP02	1		450–3000		
26	striker plate S-RS	Ref. PDB, TRSK					
on request							
27	mishandling device	TFBS0010- ...	1		601–3000		
28	pressure piece	Ref. PDB, TFFD	1		601–3000		
29	snapper rh.	TFST0021- ...	1		1801–3000		
	snapper lh.	TFST0022- ...			1801–3000		

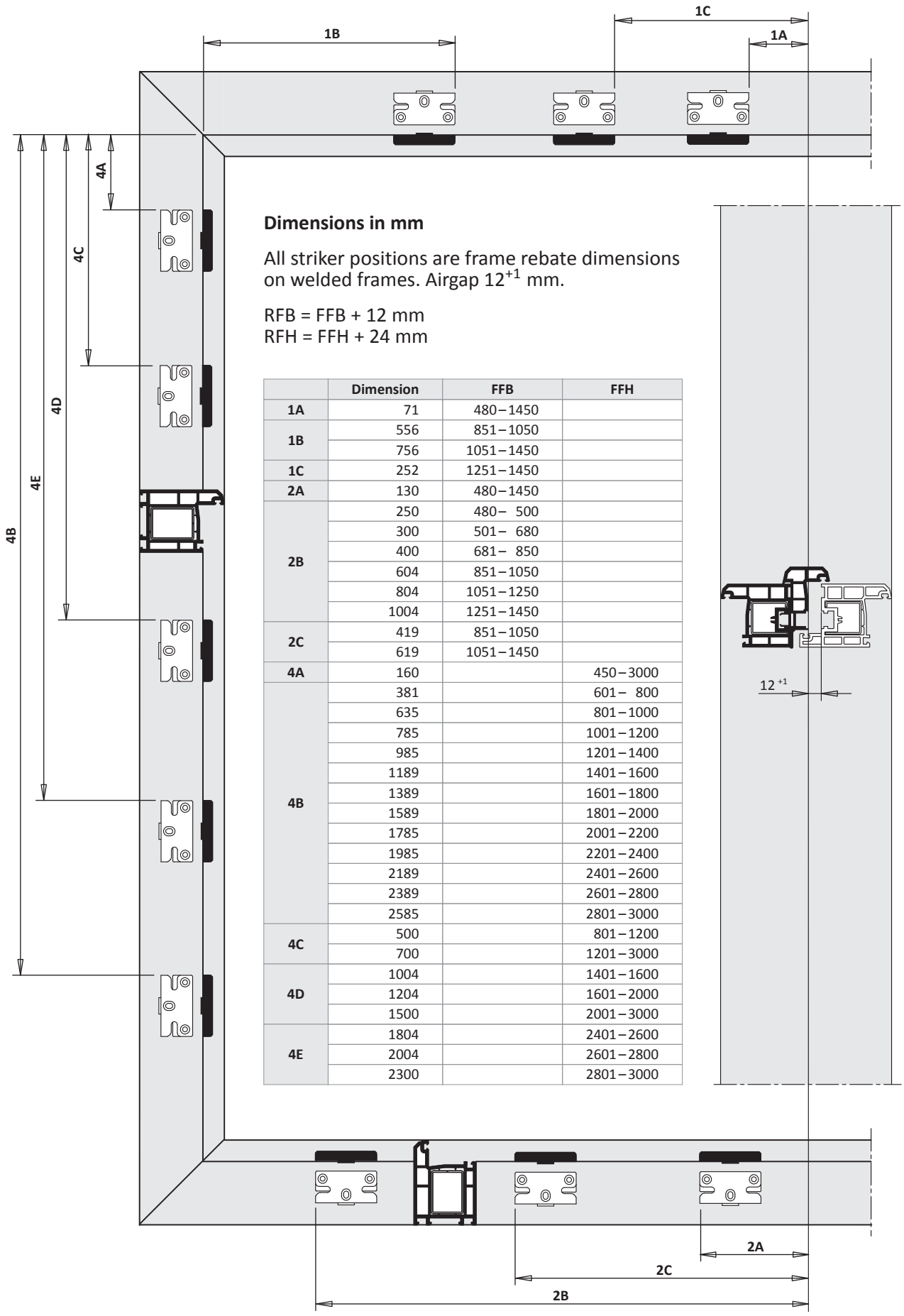
Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
30	corner hinge AX	Ref. PDB, TBEB41		1	1
31	cover cap AX EL	Ref. PDB, TKEL41		1	1
32	bottom hinge AX	Ref. PDB, TBEV41		1	1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





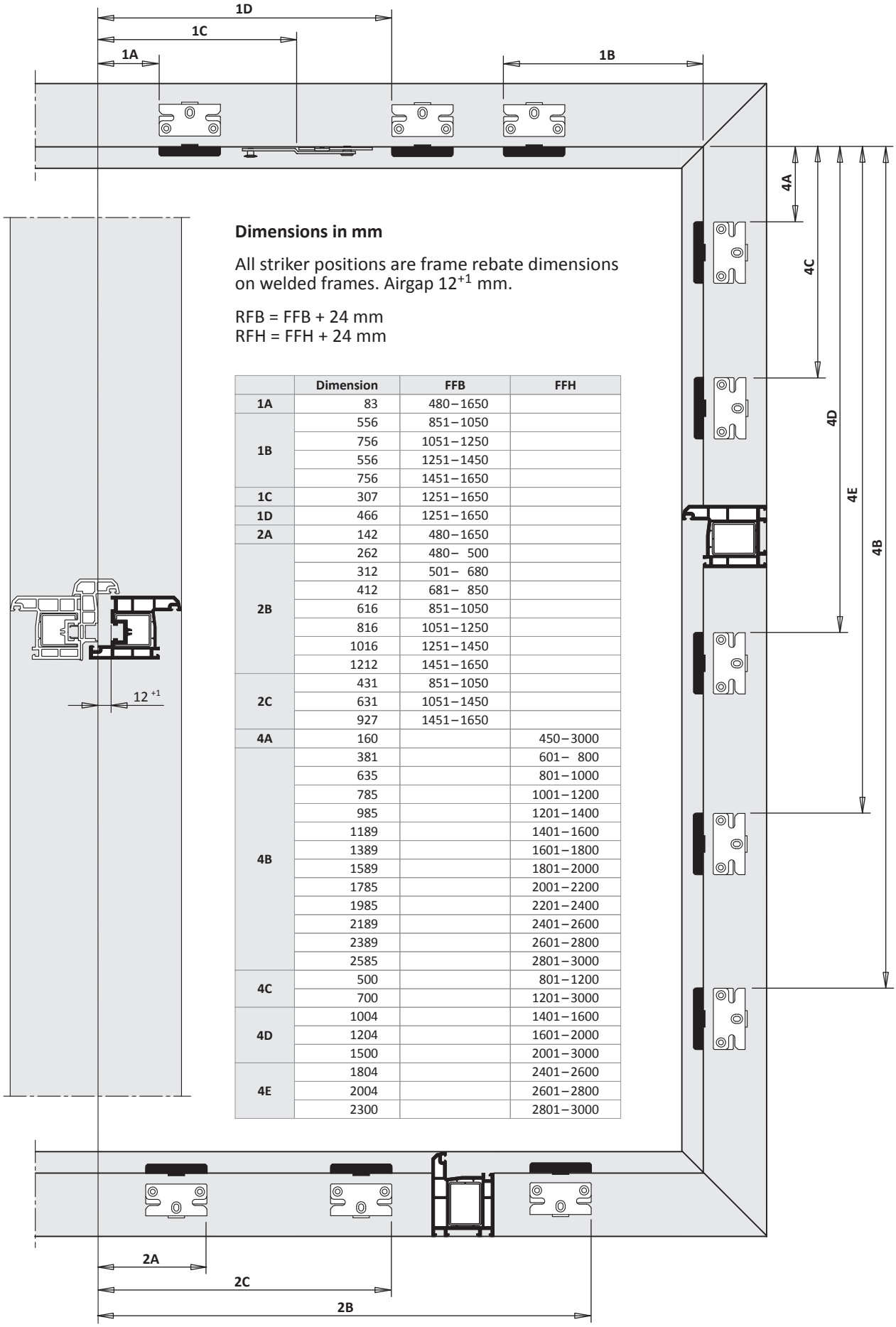


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	480–1450	
1B	556	851–1050	
	756	1051–1450	
1C	252	1251–1450	
2A	130	480–1450	
2B	250	480– 500	
	300	501– 680	
	400	681– 850	
	604	851–1050	
	804	1051–1250	
	1004	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		450–3000
4B	381		601– 800
	635		801–1000
	785		1001–1200
	985		1201–1400
	1189		1401–1600
	1389		1601–1800
	1589		1801–2000
	1785		2001–2200
	1985		2201–2400
	2189		2401–2600
	2389		2601–2800
	2585		2801–3000
4C	500		801–1200
	700		1201–3000
4D	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4E	1804		2401–2600
	2004		2601–2800
	2300		2801–3000



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480 – 1650	
1B	556	851 – 1050	
	756	1051 – 1250	
	556	1251 – 1450	
	756	1451 – 1650	
1C	307	1251 – 1650	
1D	466	1251 – 1650	
2A	142	480 – 1650	
2B	262	480 – 500	
	312	501 – 680	
	412	681 – 850	
	616	851 – 1050	
	816	1051 – 1250	
	1016	1251 – 1450	
	1212	1451 – 1650	
2C	431	851 – 1050	
	631	1051 – 1450	
	927	1451 – 1650	
4A	160		450 – 3000
4B	381		601 – 800
	635		801 – 1000
	785		1001 – 1200
	985		1201 – 1400
	1189		1401 – 1600
	1389		1601 – 1800
	1589		1801 – 2000
	1785		2001 – 2200
	1985		2201 – 2400
	2189		2401 – 2600
	2389		2601 – 2800
	2585		2801 – 3000
4C	500		801 – 1200
	700		1201 – 3000
4D	1004		1401 – 1600
	1204		1601 – 2000
	1500		2001 – 3000
4E	1804		2401 – 2600
	2004		2601 – 2800
	2300		2801 – 3000

TITAN AF

Installation instructions

RC2

1-sash square tilt-turn

PVC

RC2

fixed handle position

Hinge side axxent 24+

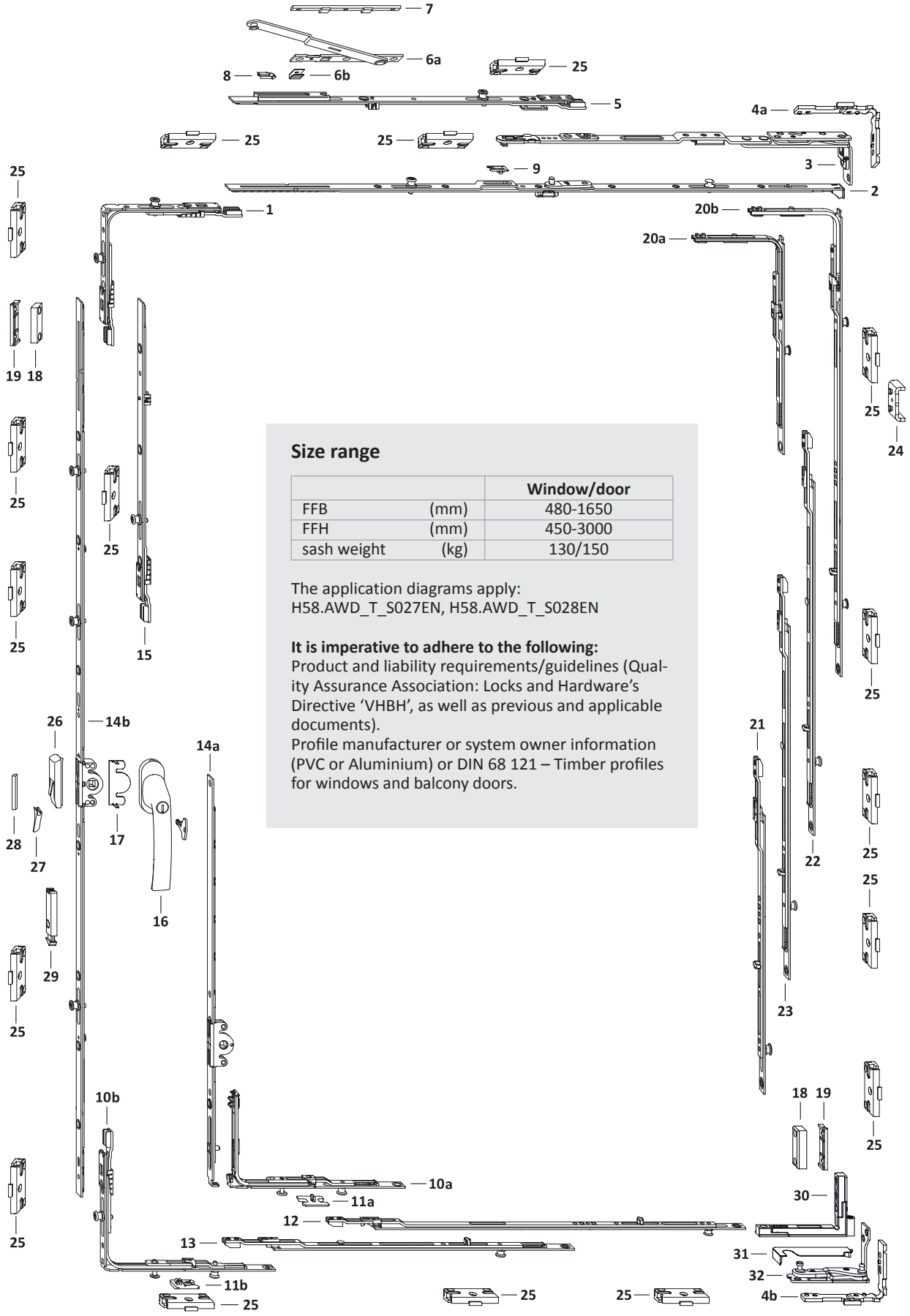
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout

1-sash square tilt-turn
PVC GK Hinge side axxent 24+

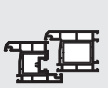


Size range

		Window/door
FFB	(mm)	480-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



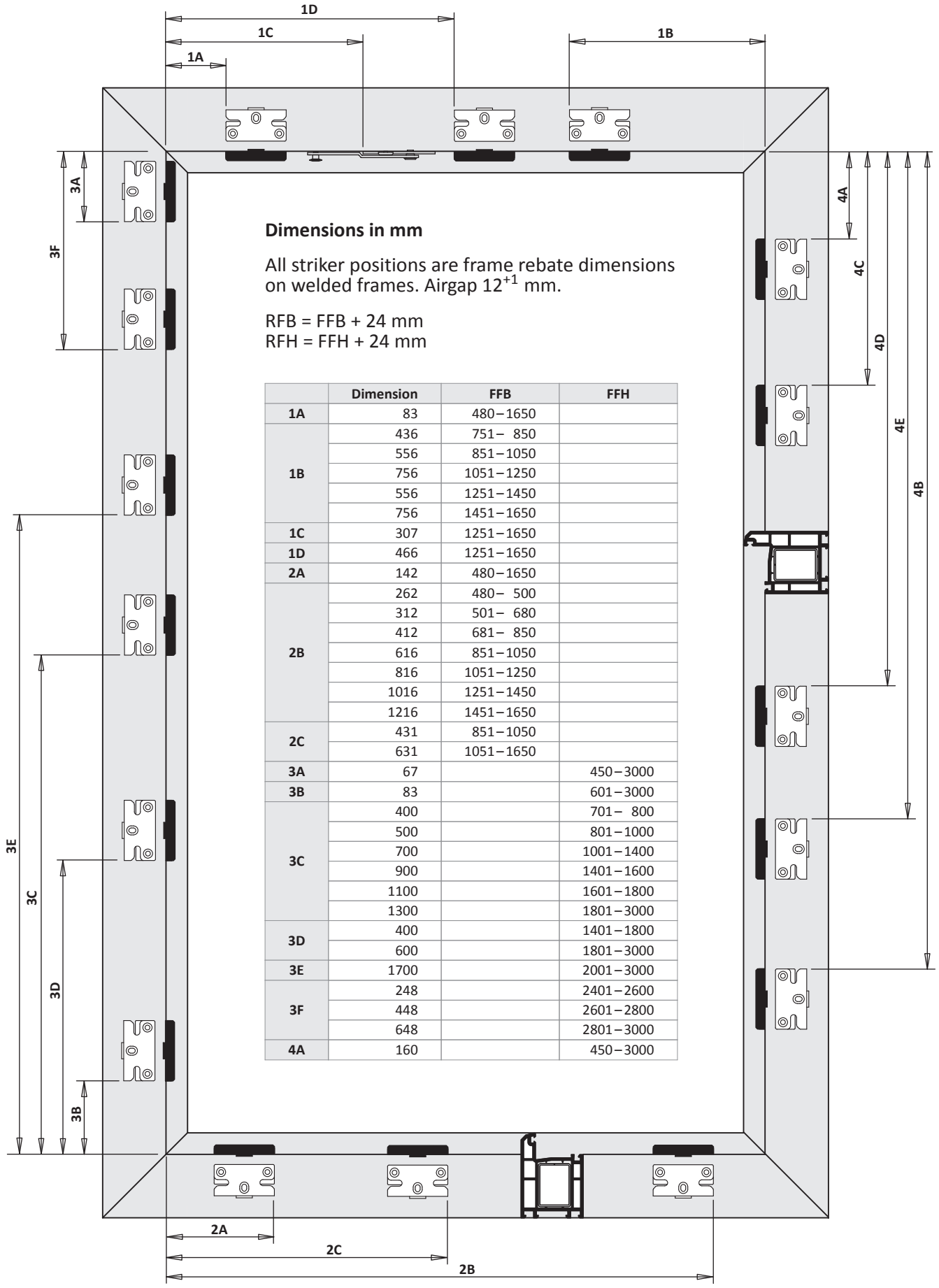
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							25
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	480 – 1650			2
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480 – 680			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681 – 750			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751 – 850			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851 – 1050			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051 – 1250			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251 – 1450			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451 – 1650			1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480 – 680			
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681 – 850			
	stay arm AX sz 4	Ref. PDB, TSAV44		851 – 1050			
	stay arm AX sz 5	Ref. PDB, TSAV45		1051 – 1250			
	stay arm AX sz 4	Ref. PDB, TSAV44		1251 – 1450			
	stay arm AX sz 5	Ref. PDB, TSAV45		1451 – 1650			
4	crt. accessories AX	Ref. PDB, TMZV41	1	480 – 1650			
5	linkage additional stay 1RS	TZOK1010- ...	1	1251 – 1650			1
6	additional stay	Ref. PDB, TSZS	1	1251 – 1650			
7	packer Z	Ref. PDB, FRUP01	1	1251 – 1650			
8	tilt restr. additional stay ..	889008	1	1251 – 1650			
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681 – 1050	450 – 900		
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051 – 1250	450 – 900		
10a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480 – 1250	450 – 600		1
10b	corn.drive AF VSU/K 56+ 1S 2RS	TEUL5040- ...	1	480 – 1650	601 – 3000		2
11a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480 – 1250	450 – 600		
11b	run up block AF 13 mm 13	TFFH0080- ...	1	480 – 1650	601 – 3000		
12	extension sz 1+ 1RS	TVSO0200- ...	1	480 – 500			1
	extension sz 2+ 1RS	TVSL0320- ...		501 – 680			1
	extension sz 3+ 1RS	TVSL0330- ...		681 – 850			1
	extension sz 2+ 1RS	TVSL0320- ...		851 – 1050			1
	extension sz 2+ 1RS	TVSL0320- ...		1051 – 1250			1
	extension sz 4+ 1RS	TVSL0340- ...		1251 – 1450			1
	extension sz 6+ 1RS	TVSL0360- ...		1451 – 1650			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1650			1
14a	gear 15 sz 30/G180	TGKK3010- ...	1	480 – 1250	450 – 600	180	
14b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601 – 700	300	
	gear 15 AF sz 70/G300 1RS	TGKK4040- ...			701 – 800	300	1
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801 – 1000	400	1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001 – 1200	500	1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201 – 1400	600	1
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401 – 1600	700	2
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601 – 1800	700	2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801 – 2000	1000	2
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001 – 2200	1000	3
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201 – 3000	1000	3
15	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401 – 2600		1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601 – 2800		1
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801 – 3000		1
16	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		450 – 3000		
17	anti-drill guard E	TGBS0010- ...	1		450 – 3000		
18	Air gap limiter	Ref. PDB, FRFL	2		450 – 3000		
19	packer RB/FPS	Ref. PDB, FRUP02	2		450 – 3000		
20a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450 – 800		1
20b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000		2

List of fittings

1-sash square tilt-turn
PVC GK Hinge side axxent 24+

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							25
21	extension sz 2+ 1RS	TVSL0320- ...	1		501– 600		1
	extension sz 3+ 1RS	TVSL0330- ...			601– 800		1
	extension sz 2+ 1RS	TVSL0320- ...			801–1000		1
	extension sz 4+ 1RS	TVSL0340- ...			1001–1400		1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1600		1
	extension sz 2+ 1RS	TVSL0320- ...			1801–2000		1
	extension sz 4+ 1RS	TVSL0340- ...			2001–2200		1
	extension sz 6+ 1RS	TVSL0360- ...			2201–2400		1
	extension sz 5+ 1RS	TVSL0350- ...			2401–3000		1
22	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000		1
23	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2801–3000		1
24	anti-lift device	Ref. PDB, TFAH	1		450–3000		
25	striker plate S-RS	Ref. PDB, TRSK					
			on request				
26	mishandling device	TFBS0010- ...	1				
27	pressure piece	Ref. PDB, TFFD	1				
28	stop	Ref. PDB, FRZF01	1				
29	snapper rh.	TFST0021- ...	1		1801–3000		
	snapper lh.	TFST0022- ...			1801–3000		

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
30	corner hinge AX	Ref. PDB, TBEB41		1	1
31	cover cap AX EL	Ref. PDB, TKEL41		1	1
32	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

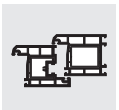
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

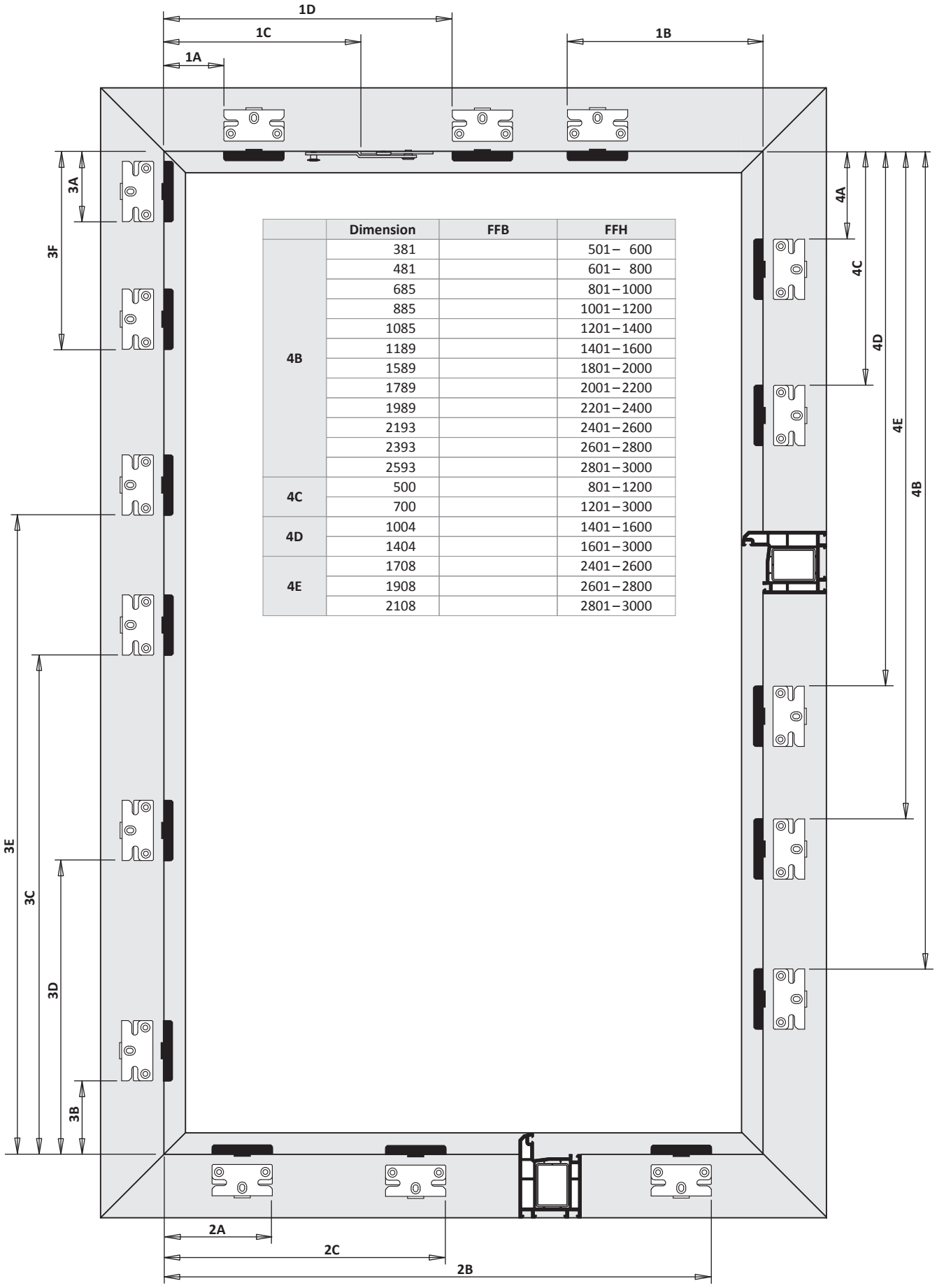
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	436	751– 850	
	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	480–1650	
2B	262	480– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1216	1451–1650	
2C	431	851–1050	
	631	1051–1650	
3A	67		450–3000
3B	83		601–3000
3C	400		701– 800
	500		801–1000
	700		1001–1400
	900		1401–1600
	1100		1601–1800
	1300		1801–3000
3D	400		1401–1800
	600		1801–3000
3E	1700		2001–3000
3F	248		2401–2600
	448		2601–2800
	648		2801–3000
4A	160		450–3000

Frame dimensions

1-sash square tilt-turn
PVC GK Hinge side axxent 24+

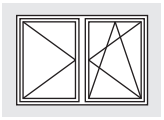


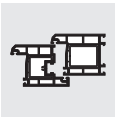


	Dimension	FFB	FFH
4B	381		501 – 600
	481		601 – 800
	685		801 – 1000
	885		1001 – 1200
	1085		1201 – 1400
	1189		1401 – 1600
	1589		1801 – 2000
	1789		2001 – 2200
	1989		2201 – 2400
	2193		2401 – 2600
	2393		2601 – 2800
	2593		2801 – 3000
4C	500		801 – 1200
	700		1201 – 3000
4D	1004		1401 – 1600
	1404		1601 – 3000
4E	1708		2401 – 2600
	1908		2601 – 2800
	2108		2801 – 3000

TITAN AF

Installation instructions





RC2

2-sash square tilt-turn/turn DS 16

PVC

RC2

fixed handle position

Hinge side axxent 24+

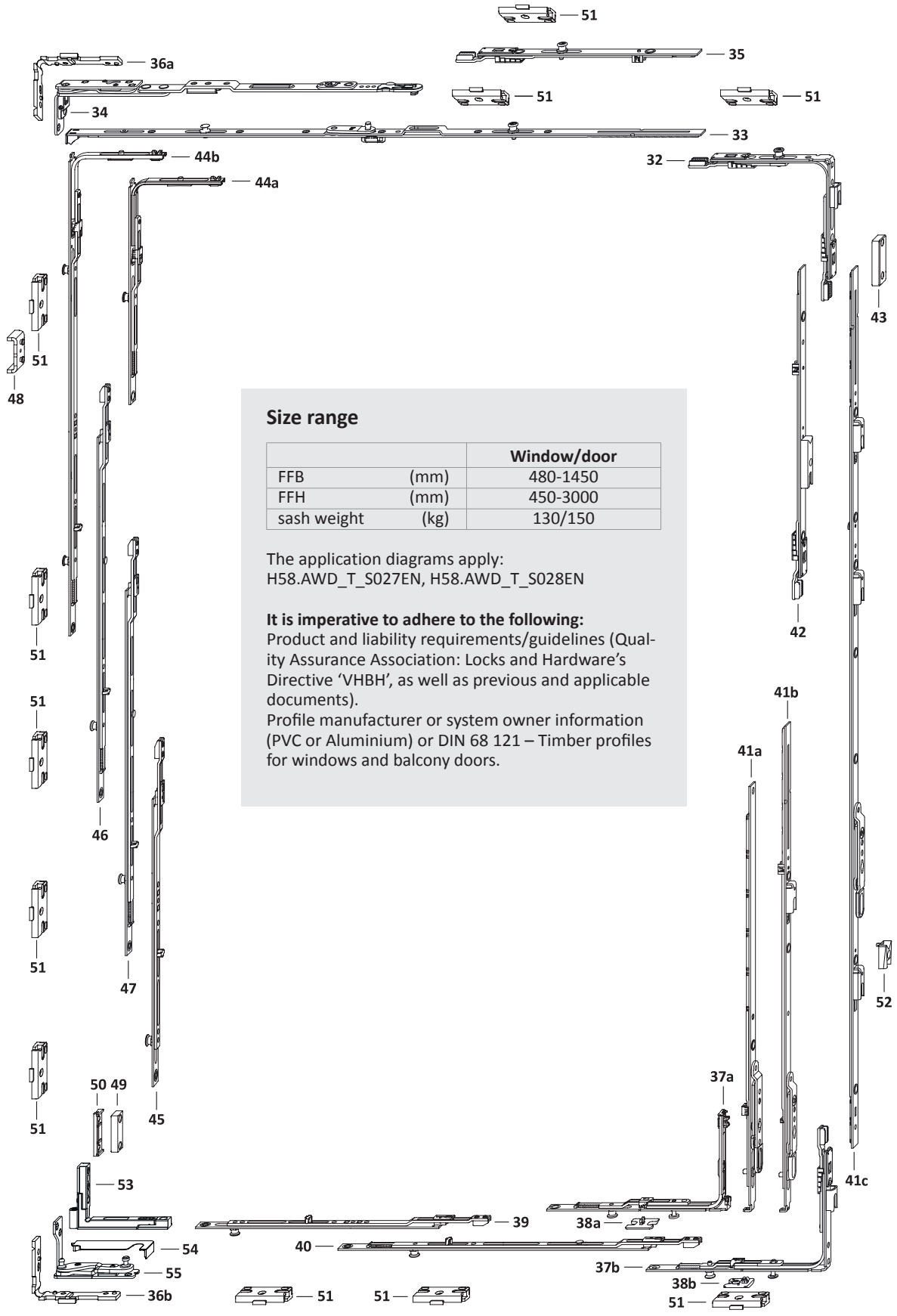
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+

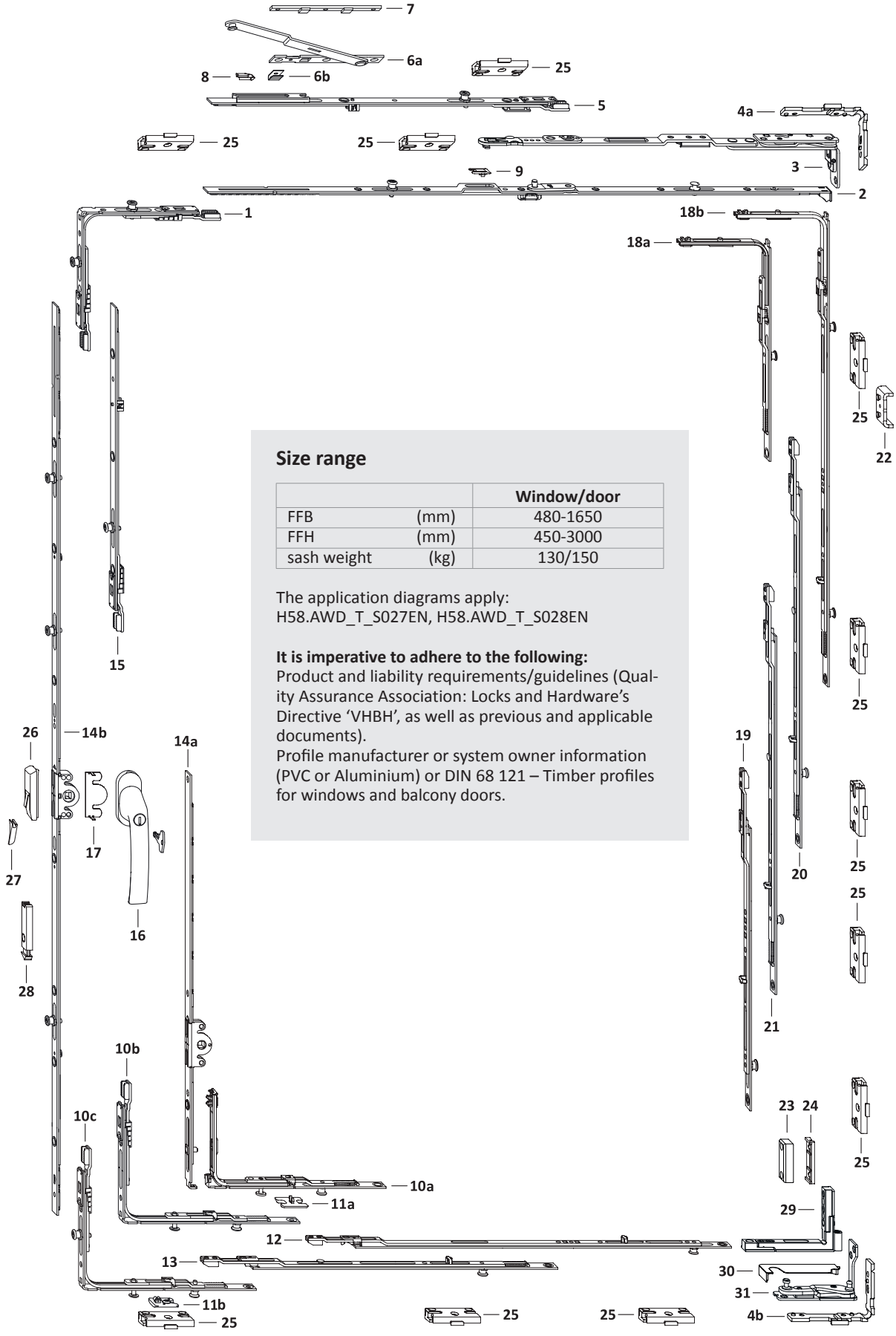


Size range

		Window/door
FFB	(mm)	480-1450
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

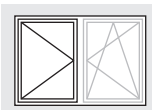
		Window/door
FFB	(mm)	480-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

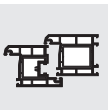
The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+



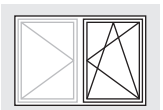


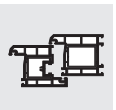
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
						In the main sash	51
32	corn.drive AF VSO WK2 SB 1RS	TEUL4080- ...	1	480–1450			1
33	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 750			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751– 850			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1450			1
34	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680			
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850			
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050			
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1050			
35	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450			1
36	crt. accessories AX	Ref. PDB, TMZV41	1	480–1450			
37a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480–1450	450– 800		1
37b	corn.drive AFVSU/K 56+ SB1S1RS	TEUL5120- ...	1	480–1450	801–3000		1
38a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480–1450	450– 800		
38b	run up block AF 13 mm 13	TFFH0080- ...	1	480–1450	801–3000		
39	extension sz 1+ 1RS	TVSO0200- ...	1	480– 500			1
	extension sz 2+ 1RS	TVSL0320- ...		501– 680			1
	extension sz 3+ 1RS	TVSL0330- ...		681– 850			1
	extension sz 2+ 1RS	TVSL0320- ...		851–1050			1
	extension sz 2+ 1RS	TVSL0320- ...		1051–1250			1
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450			1
40	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450			1
41a	sec.sash gear 16 sz 30	TGKS0010- ...	1	480–1250	450– 600	180	
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300	
41b	sec.sash gear 16 AF70/G300 1SB	TGKS4040- ...	1		701– 800	300	
41c	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400	
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500	
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600	
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401–1600	700	
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700	
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000	
	sec.sash gear 16 AF200/G1000 3 70	TGKS4280- ...			2001–2200	1000	
	sec.sash gear 16 AF220/G1000 3 70	TGKS4320- ...			2201–3000	1000	
42	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2600		
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2601–2800		
	linkage AF sz 3 1SB-RS	TZKS1080- ...			2801–3000		
43	air gap limiter F ..	TFFB0010- ...	1		450–3000		
44a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450– 800		1
44b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
45	extension sz 2+ 1RS	TVSL0320- ...	1		501– 600		1
	extension sz 3+ 1RS	TVSL0330- ...			601– 800		1
	extension sz 2+ 1RS	TVSL0320- ...			801–1000		1
	extension sz 4+ 1RS	TVSL0340- ...			1001–1400		1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1600		1
	extension sz 2+ 1RS	TVSL0320- ...			1801–2000		1
	extension sz 4+ 1RS	TVSL0340- ...			2001–2200		1
	extension sz 6+ 1RS	TVSL0360- ...			2201–2400		1
	extension sz 5+ 1RS	TVSL0350- ...			2401–3000		1
46	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000		1
47	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2801–3000		1
48	anti-lift device	Ref. PDB, TFAH	1		450–3000		
49	Air gap limiter	Ref. PDB, FRFL	1		450–3000		
50	packer RB/FPS	Ref. PDB, FRUP02	1		450–3000		
51	striker plate S-RS	Ref. PDB, TRSK					
on request							
52	striker snapper AF A0767	TRST0100- ...	1		1801–3000		

Hinge side turning points					
Pos.	**Description**	**Part number**		**required as per sash weight**	
		surface TS	RAL7037	130 kg	150 kg
53	corner hinge AX	Ref. PDB, TBEB41		1	1
54	cover cap AX EL	Ref. PDB, TKEL41		1	1
55	bottom hinge AX	Ref. PDB, TBEV41		1	1

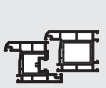
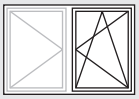
List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							25
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	480 – 1650			1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480 – 680			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681 – 750			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751 – 850			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851 – 1050			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051 – 1250			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251 – 1450			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451 – 1650			1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480 – 680			
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681 – 850			
	stay arm AX sz 4	Ref. PDB, TSAV44		851 – 1050			
	stay arm AX sz 5	Ref. PDB, TSAV45		1051 – 1250			
	stay arm AX sz 4	Ref. PDB, TSAV44		1251 – 1450			
	stay arm AX sz 5	Ref. PDB, TSAV45		1451 – 1650			
4	crt. accessories AX	Ref. PDB, TMZV41	1	480 – 1650			
5	linkage additional stay 1RS	TZOK1010- ...	1	1251 – 1650			1
6	additional stay	Ref. PDB, TSZS	1	1251 – 1650			
7	packer Z	Ref. PDB, FRUP01	1	1251 – 1650			
8	tilt restr. additional stay ..	889008	1	1251 – 1650			
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681 – 1050	450 – 900		
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051 – 1250	450 – 900		
10a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480 – 1250	450 – 600		1
10b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480 – 1650	601 – 800		1
10c	corn.drive AF VSU/K 56+ 1S 2RS	TEUL5040- ...	1	480 – 1650	801 – 3000		1
11a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480 – 1250	450 – 600		
11b	run up block AF 13 mm 13	TFFH0080- ...	1	480 – 1650	601 – 3000		
12	extension sz 1+ 1RS	TVSO0200- ...	1	480 – 500			1
	extension sz 2+ 1RS	TVSL0320- ...		501 – 680			1
	extension sz 3+ 1RS	TVSL0330- ...		681 – 850			1
	extension sz 2+ 1RS	TVSL0320- ...		851 – 1050			1
	extension sz 2+ 1RS	TVSL0320- ...		1051 – 1250			1
	extension sz 4+ 1RS	TVSL0340- ...		1251 – 1450			1
	extension sz 6+ 1RS	TVSL0360- ...		1451 – 1650			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1650			1
14a	gear 15 sz 30/G180	TGKK3010- ...	1	480 – 1250	450 – 600	180	
14b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601 – 700	300	
	gear 15 AF sz 70/G300 1RS	TGKK4040- ...			701 – 800	300	
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801 – 1000	400	
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001 – 1200	500	
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201 – 1400	600	
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401 – 1600	700	
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601 – 1800	700	
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801 – 2000	1000	
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001 – 2200	1000	
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201 – 3000	1000	
15	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401 – 2600		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601 – 2800		
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801 – 3000		
16	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		450 – 3000		
17	anti-drill guard E	TGBS0010- ...	1		450 – 3000		
18a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450 – 800		1
18b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000		2
19	extension sz 2+ 1RS	TVSL0320- ...	1		501 – 600		1
	extension sz 3+ 1RS	TVSL0330- ...			601 – 800		1
	extension sz 2+ 1RS	TVSL0320- ...			801 – 1000		1
	extension sz 4+ 1RS	TVSL0340- ...			1001 – 1400		1
	extension sz 2+ 1RS	TVSL0320- ...			1401 – 1600		1
	extension sz 2+ 1RS	TVSL0320- ...			1801 – 2000		1
	extension sz 4+ 1RS	TVSL0340- ...			2001 – 2200		1
	extension sz 6+ 1RS	TVSL0360- ...			2201 – 2400		1
	extension sz 5+ 1RS	TVSL0350- ...			2401 – 3000		1

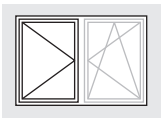



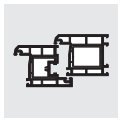
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							25
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000		1
21	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2801–3000		1
22	anti-lift device	Ref. PDB, TFAH	1		450–3000		
23	Air gap limiter	Ref. PDB, FRFL	1		450–3000		
24	packer RB/FPS	Ref. PDB, FRUP02	1		450–3000		
25	striker plate S-RS	Ref. PDB, TRSK					
on request							
26	mishandling device	TFBS0010- ...	1		601–3000		
27	pressure piece	Ref. PDB, TFFD	1		601–3000		
28	snapper rh.	TFST0021- ...	1		1801–3000		
	snapper lh.	TFST0022- ...			1801–3000		

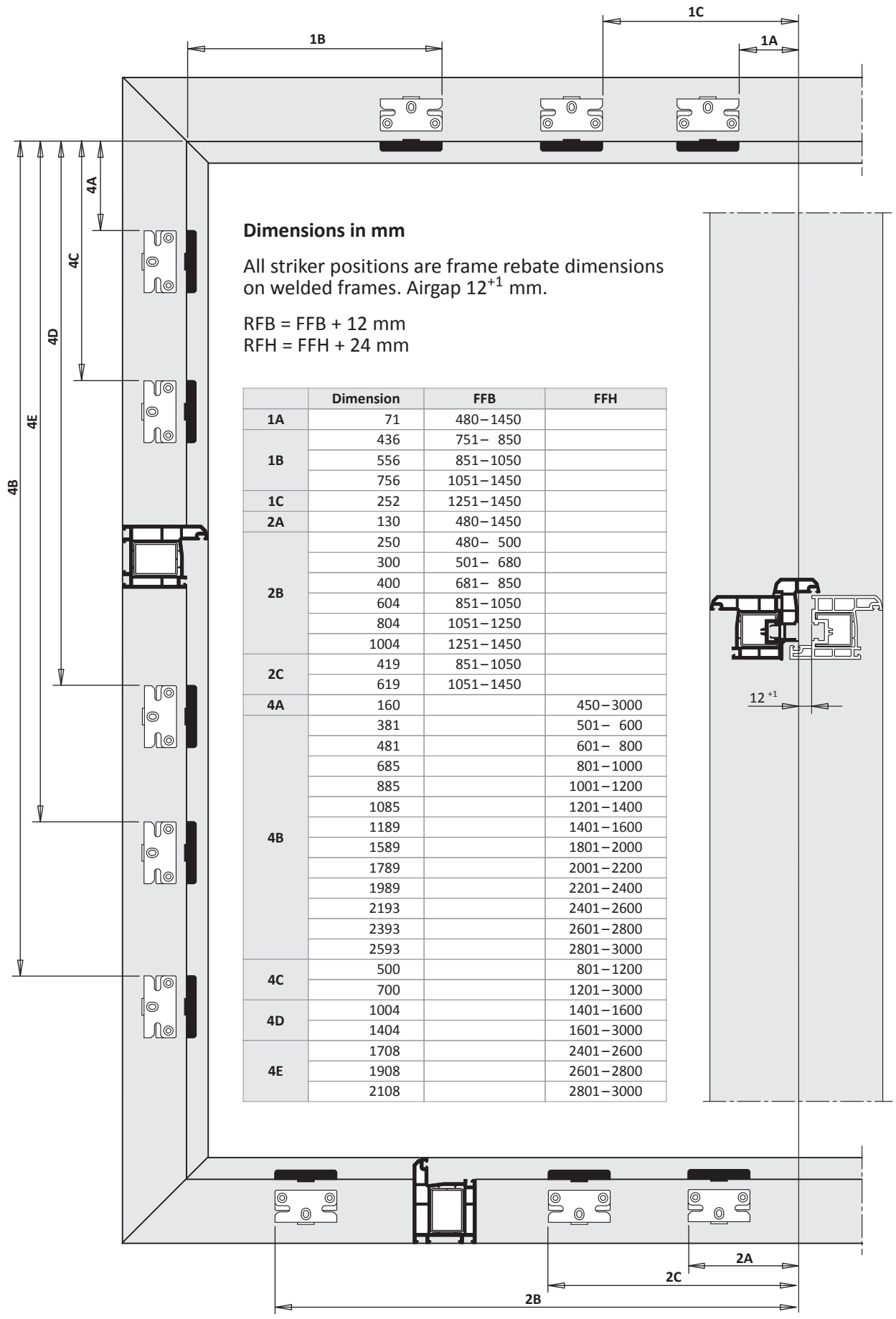
Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
29	corner hinge AX	Ref. PDB, TBEB41		1	1
30	cover cap AX EL	Ref. PDB, TKEL41		1	1
31	bottom hinge AX	Ref. PDB, TBEV41		1	1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





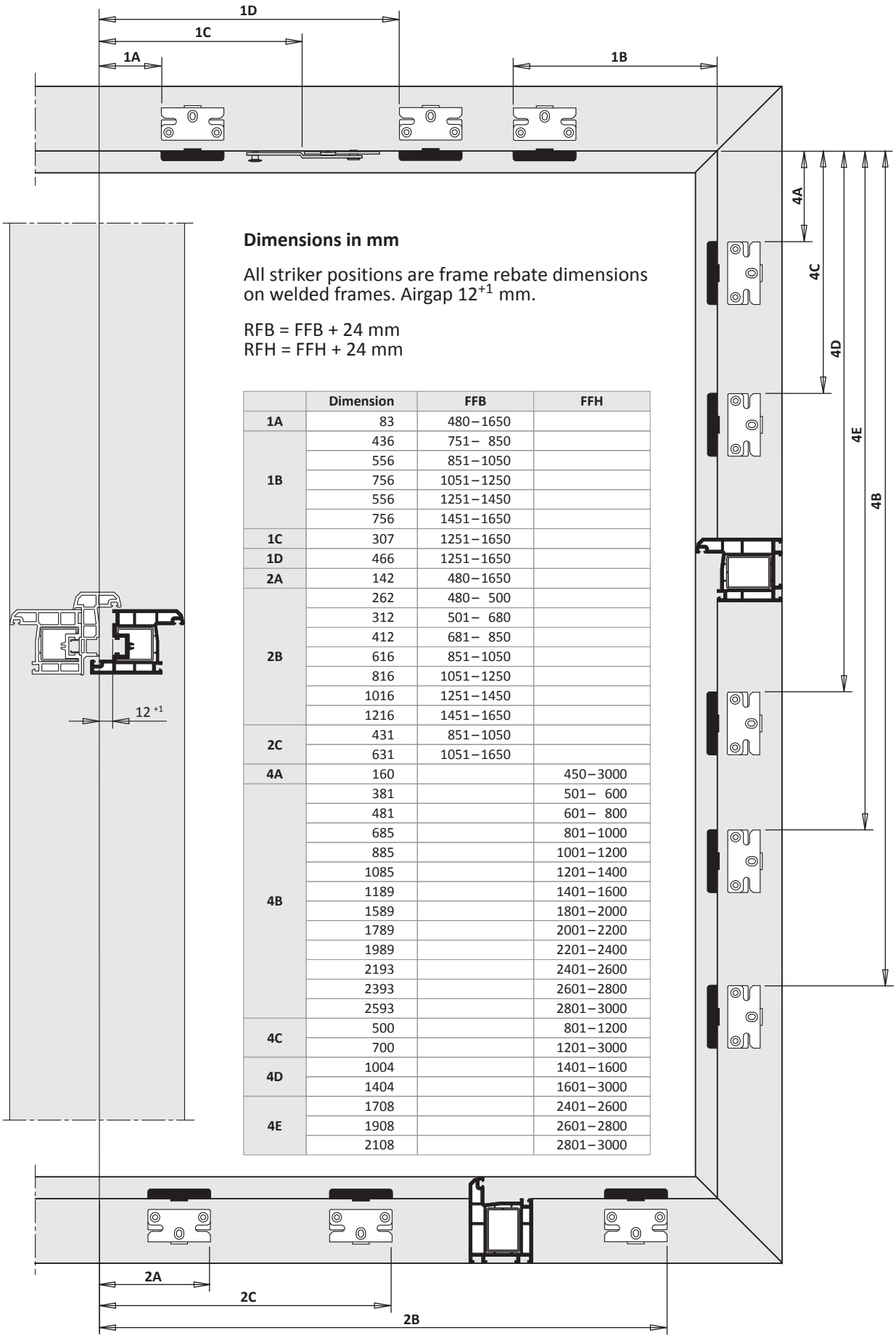


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	480–1450	
1B	436	751– 850	
	556	851–1050	
	756	1051–1450	
1C	252	1251–1450	
2A	130	480–1450	
2B	250	480– 500	
	300	501– 680	
	400	681– 850	
	604	851–1050	
	804	1051–1250	
	1004	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		450–3000
4B	381		501– 600
	481		601– 800
	685		801–1000
	885		1001–1200
	1085		1201–1400
	1189		1401–1600
	1589		1801–2000
	1789		2001–2200
	1989		2201–2400
	2193		2401–2600
	2393		2601–2800
	2593		2801–3000
4C	500		801–1200
	700		1201–3000
4D	1004		1401–1600
	1404		1601–3000
4E	1708		2401–2600
	1908		2601–2800
	2108		2801–3000



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	436	751– 850	
	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	480–1650	
2B	262	480– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1216	1451–1650	
2C	431	851–1050	
	631	1051–1650	
4A	160		450–3000
4B	381		501– 600
	481		601– 800
	685		801–1000
	885		1001–1200
	1085		1201–1400
	1189		1401–1600
	1589		1801–2000
	1789		2001–2200
	1989		2201–2400
	2193		2401–2600
	2393		2601–2800
	2593		2801–3000
4C	500		801–1200
	700		1201–3000
4D	1004		1401–1600
	1404		1601–3000
4E	1708		2401–2600
	1908		2601–2800
	2108		2801–3000

Bottom inliner

1-sash square tilt-turn	H48.TAFKFM2+S009EN	7 - 3
2-sash square tilt-turn/turn DS 16	H48.TAFKFM2+S010EN	7 - 9

Bottom double cam SB R-RS

1-sash square tilt-turn	H48.TAFKFM2+S403EN	7 - 19
2-sash square tilt-turn/turn DS 16	H48.TAFKFM2+S404EN	7 - 25

Locking-points distance 700

1-sash square tilt-turn	H48.TAFKFM2+S303EN	7 - 33
2-sash square tilt-turn/turn DS 16	H48.TAFKFM2+S304EN	7 - 39

TITAN AF

Installation instructions

RC2

1-sash square tilt-turn

PVC

RC2

centre handle pos. (variable)

Hinge side axxent 24+

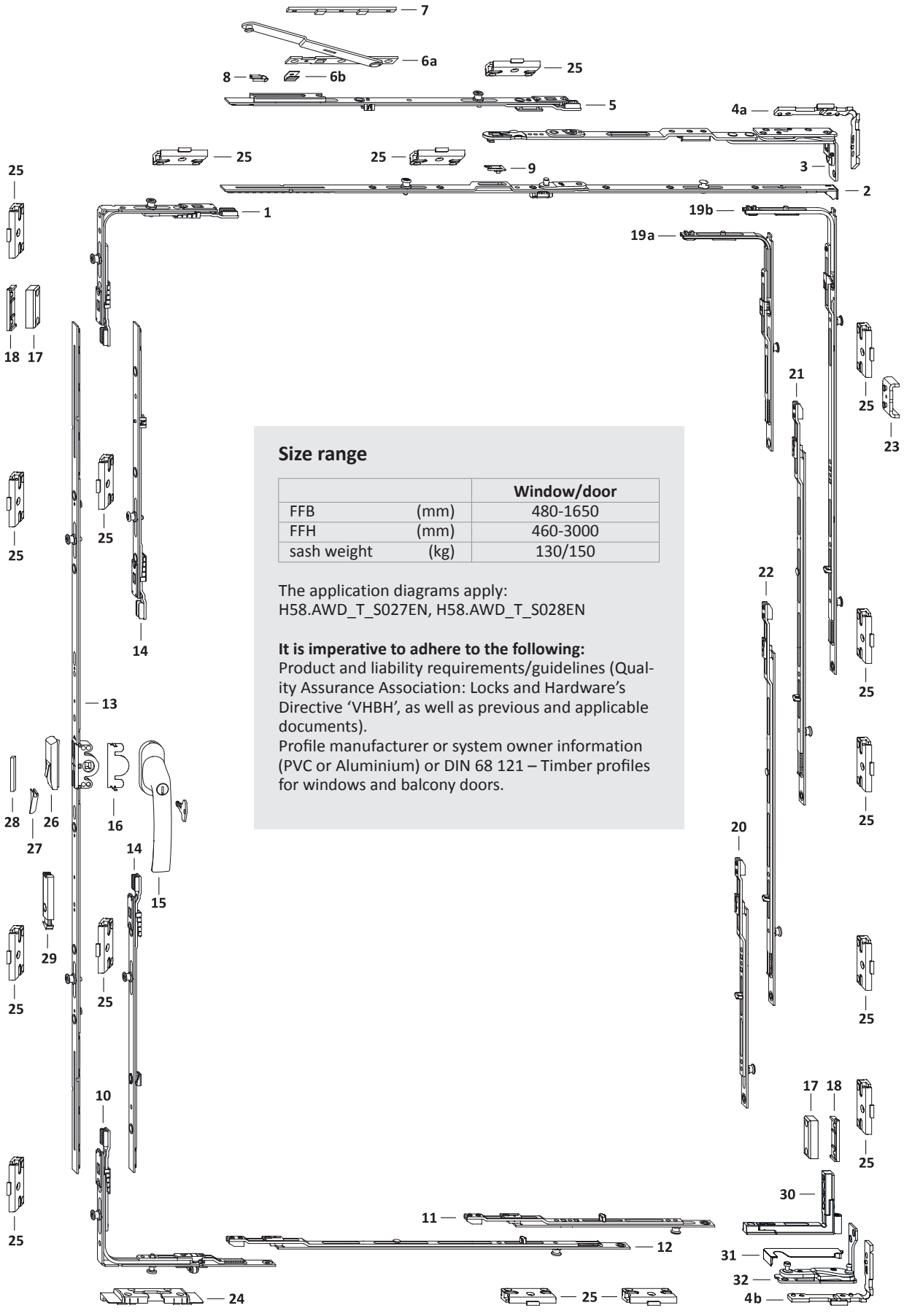
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout

1-sash square tilt-turn
PVC GM Hinge side axxent 24+

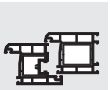


Size range

		Window/door
FFB	(mm)	480-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

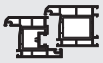
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							24	25
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	480–1650				2
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	480–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	460– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	460– 900			
10	corn.drive AF VSU/K+ FH 1S 1RS A0055	TEUL5020- ...	1	480–1650			1	1
11	extension sz 1+ 1RS	TVSO0200- ...	1	480– 500				1
	extension sz 2+ 1RS	TVSL0320- ...		501– 680				1
	extension sz 3+ 1RS	TVSL0330- ...		681– 850				1
	extension sz 2+ 1RS	TVSL0320- ...		851–1250				1
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450				1
	extension sz 3+ 1RS	TVSL0330- ...		1451–1650				1
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
13	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		2
14	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
15	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460–3000			
16	anti-drill guard E	TGBS0010- ...	1		460–3000			
17	Air gap limiter	Ref. PDB, FRFL	2		460–3000			
18	packer RB/FPS	Ref. PDB, FRUP02	2		460–3000			
19a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800			1
19b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
20	extension sz 2+ 1RS	TVSL0320- ...	1		601– 800			1
	extension sz 1+ 1RS	TVSO0200- ...			801–1000			1
	extension sz 3+ 1RS	TVSL0330- ...			1001–1400			1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1800			1
	extension sz 4+ 1RS	TVSL0340- ...			1801–2000			1
	extension sz 3+ 1RS	TVSL0330- ...			2001–2200			1
	extension sz 5+ 1RS	TVSL0350- ...			2201–2400			1
	extension sz 4+ 1RS	TVSL0340- ...			2401–2600			1
	extension sz 4+ 1RS	TVSL0340- ...			2601–2800			1
	extension sz 3+ 1RS	TVSL0330- ...			2801–3000			1
21	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
22	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
23	anti-lift device	Ref. PDB, TFAH	1		460–3000			
24	tilt lock bear. S-ES FH	Ref. PDB, FRKA						

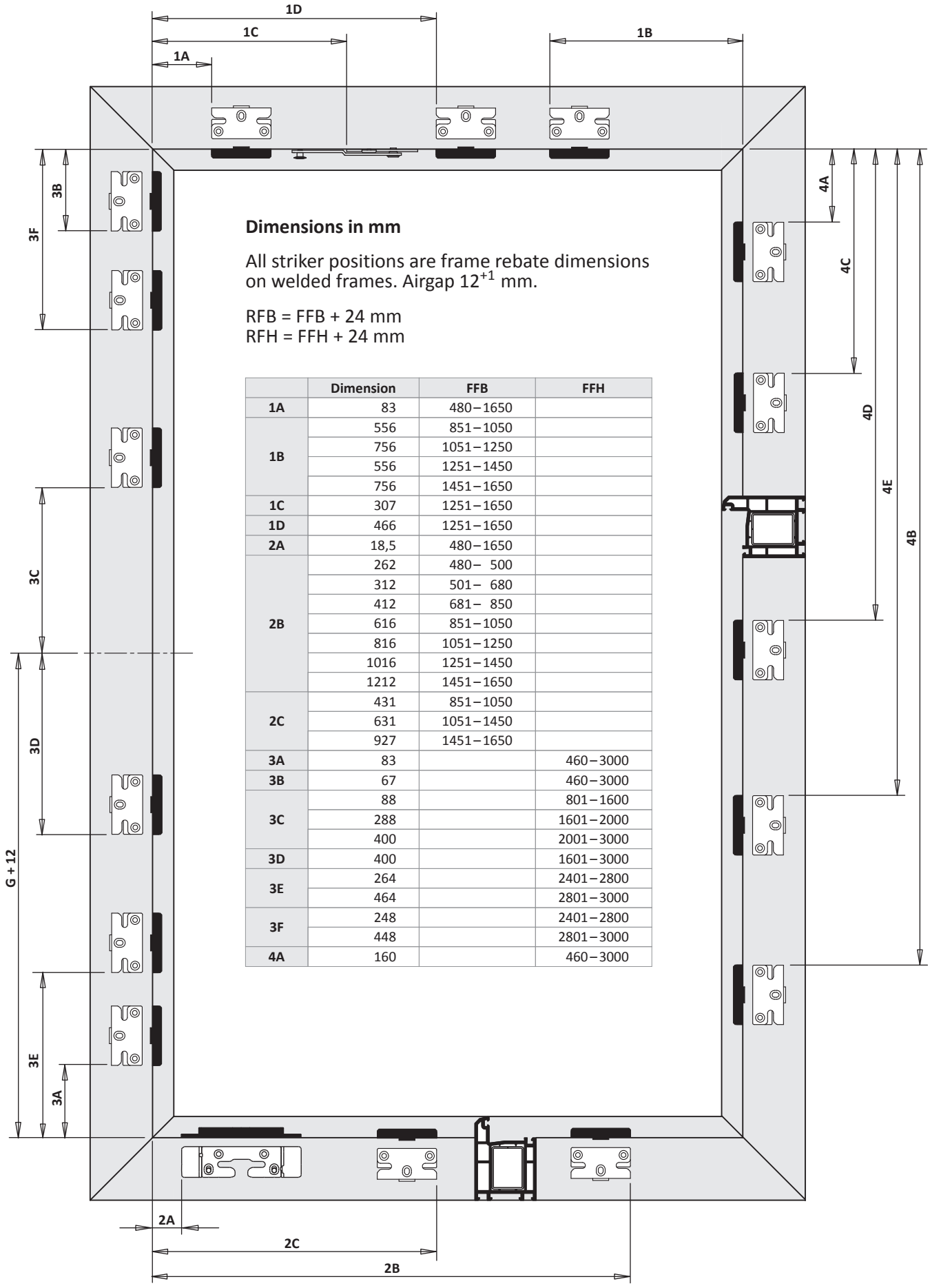
List of fittings

1-sash square tilt-turn
PVC GM Hinge side axxent 24+



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							24	25
25	striker plate S-RS	Ref. PDB, TRSK						
on request								
26	mishandling device	TFBS0010- ...	1					
27	pressure piece	Ref. PDB, TFFD	1					
28	stop	Ref. PDB, FRZF01	1					
29	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
30	corner hinge AX	Ref. PDB, TBEB41		1	1
31	cover cap AX EL	Ref. PDB, TKEL41		1	1
32	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

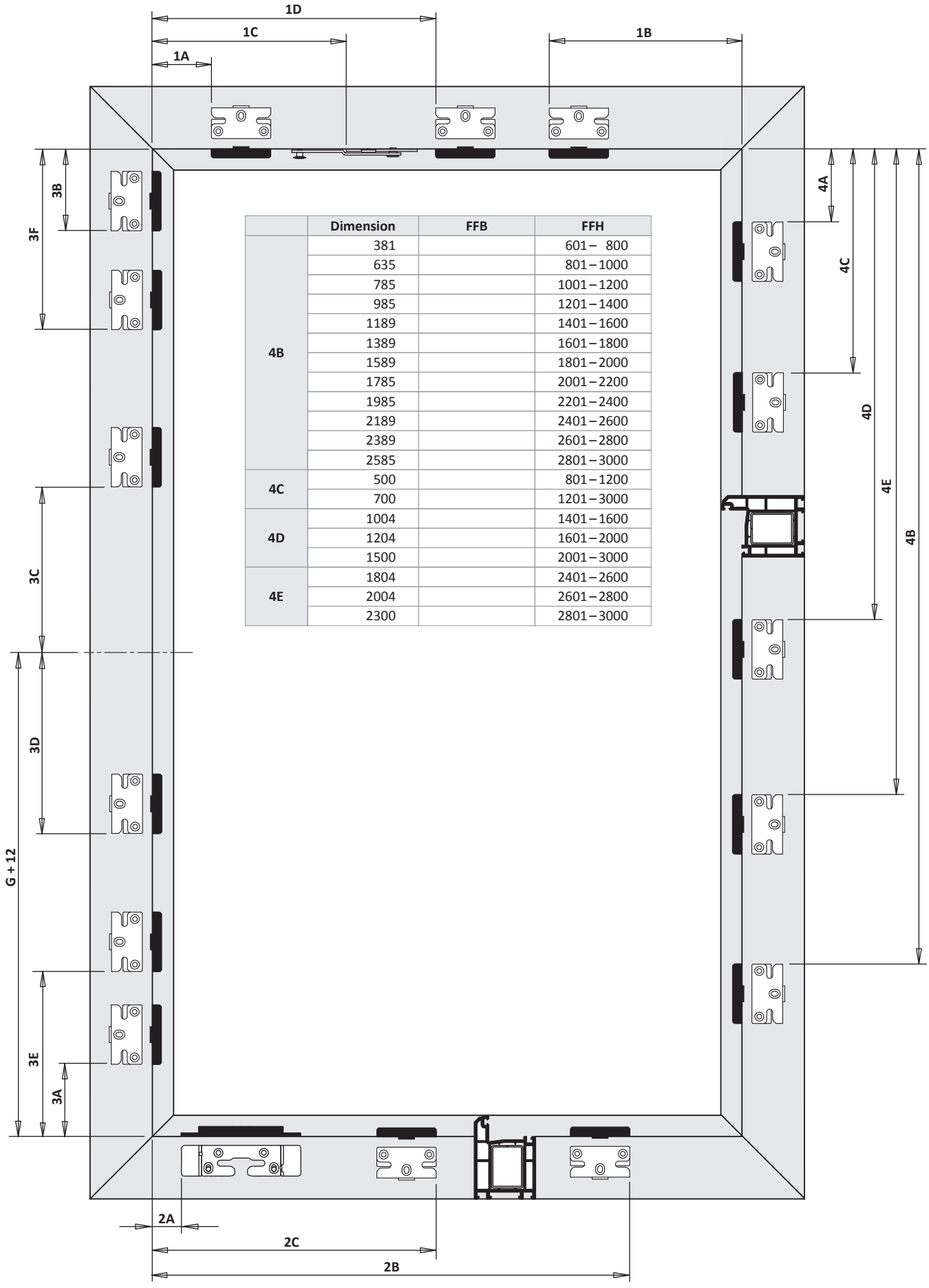
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	480–1650	
2B	262	480– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1212	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	83		460–3000
3B	67		460–3000
3C	88		801–1600
	288		1601–2000
	400		2001–3000
3D	400		1601–3000
3E	264		2401–2800
	464		2801–3000
3F	248		2401–2800
	448		2801–3000
4A	160		460–3000

Frame dimensions

1-sash square tilt-turn
PVC GM Hinge side axxent 24+



	Dimension	FFB	FFH
4B	381		601 – 800
	635		801 – 1000
	785		1001 – 1200
	985		1201 – 1400
	1189		1401 – 1600
	1389		1601 – 1800
	1589		1801 – 2000
	1785		2001 – 2200
	1985		2201 – 2400
	2189		2401 – 2600
	2389		2601 – 2800
	2585		2801 – 3000
4C	500		801 – 1200
	700		1201 – 3000
4D	1004		1401 – 1600
	1204		1601 – 2000
	1500		2001 – 3000
4E	1804		2401 – 2600
	2004		2601 – 2800
	2300		2801 – 3000

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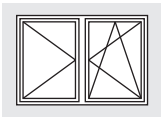
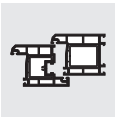
Installation instructions





RC2

2-sash square tilt-turn/turn DS 16

PVC

RC2

centre handle pos. (variable)

Hinge side axxent 24+

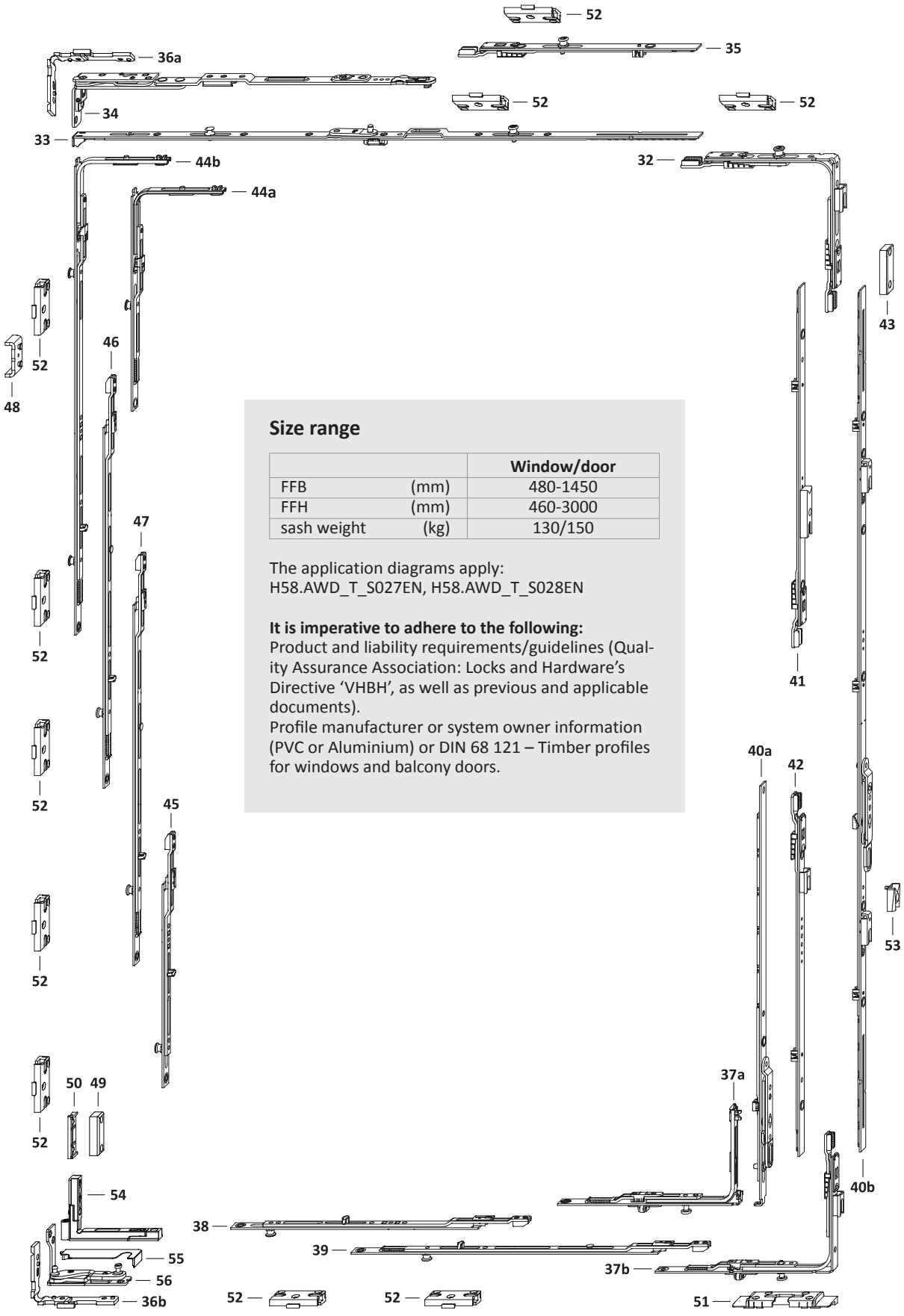
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	480-1450
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
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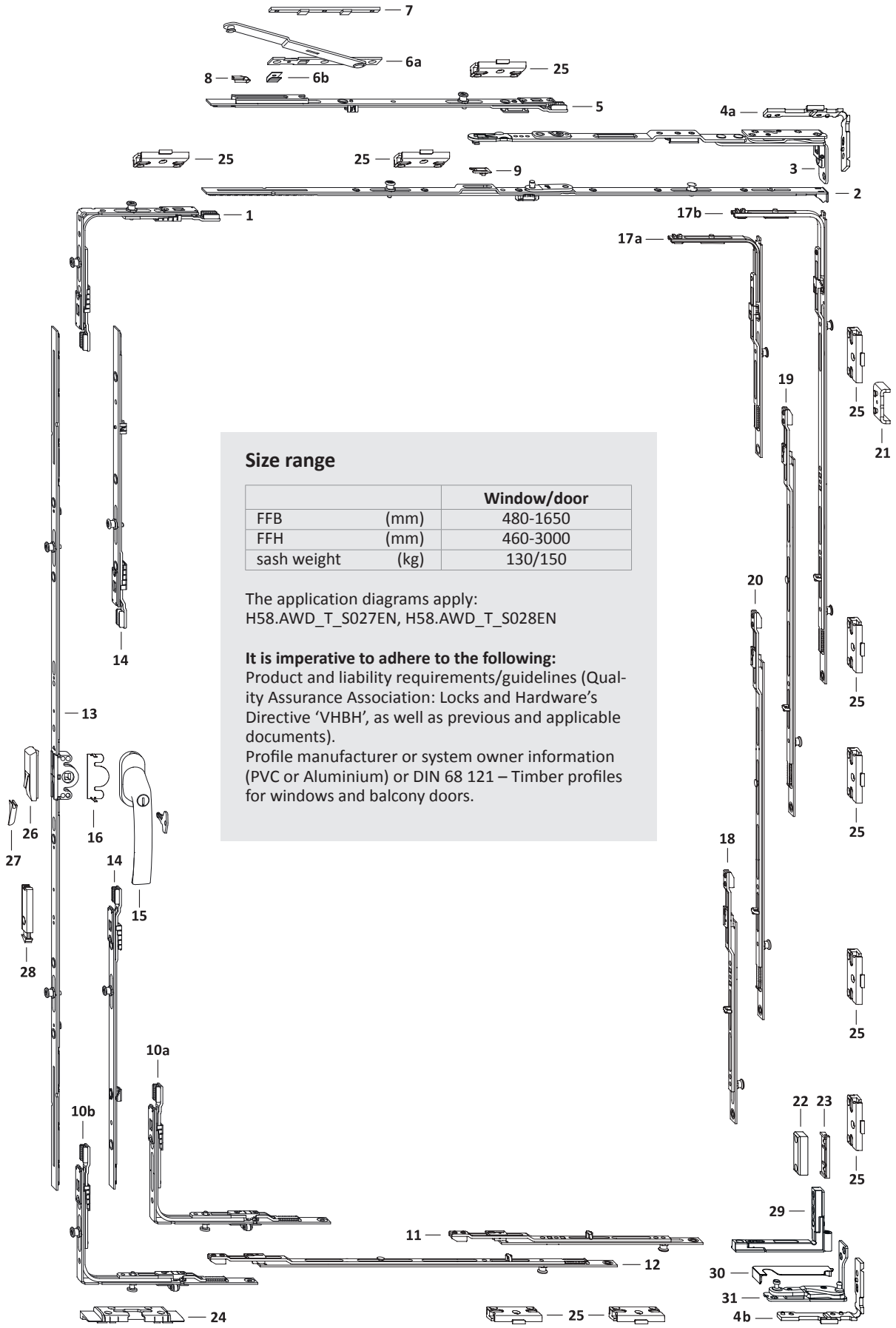
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

		Window/door
FFB	(mm)	480-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
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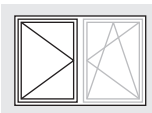
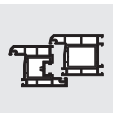
List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+



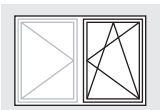


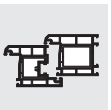
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	51	52
32	corn.drive AF VSO WK2 SB 1RS	TEUL4080- ...	1	480–1450				1
33	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1450				1
34	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1050				
35	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
36	crt. accessories AX	Ref. PDB, TMZV41	1	480–1450				
37a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	480–1450	460– 800		1	
37b	corn.drive AF VSU/K+WK2 FHSB1S	TEUL5110- ...	1	480–1450	801–3000		1	
38	extension sz 1+ 1RS	TVSO0200- ...	1	480– 500				1
	extension sz 2+ 1RS	TVSL0320- ...		501– 680				1
	extension sz 3+ 1RS	TVSL0330- ...		681– 850				1
	extension sz 2+ 1RS	TVSL0320- ...		851–1250				1
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450				1
39	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
40a	sec.sash gear 16 sz 30	TGKS0010- ...	1		460– 600	230– 300		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300– 400		
40b	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...	1		801–1200	400– 600		
	sec.sash gear 16 AF sz 120 1SB	TGMS4050- ...			1201–1600	600– 800		
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000		
	sec.sash gear 16 AF sz 200 2SB	TGMS4080- ...			2001–3000	1000–1500		
41	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
42	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800			
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000			
43	air gap limiter F ..	TFFB0010- ...	1		460–3000			
44a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800			1
44b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
45	extension sz 2+ 1RS	TVSL0320- ...	1		601– 800			1
	extension sz 1+ 1RS	TVSO0200- ...			801–1000			1
	extension sz 3+ 1RS	TVSL0330- ...			1001–1400			1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1800			1
	extension sz 4+ 1RS	TVSL0340- ...			1801–2000			1
	extension sz 3+ 1RS	TVSL0330- ...			2001–2200			1
	extension sz 5+ 1RS	TVSL0350- ...			2201–2400			1
	extension sz 4+ 1RS	TVSL0340- ...			2401–2600			1
	extension sz 4+ 1RS	TVSL0340- ...			2601–2800			1
	extension sz 3+ 1RS	TVSL0330- ...			2801–3000			1
46	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
47	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
48	anti-lift device	Ref. PDB, TFAH	1		460–3000			
49	Air gap limiter	Ref. PDB, FRFL	1		460–3000			
50	packer RB/FPS	Ref. PDB, FRUP02	1		460–3000			
51	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
52	striker plate S-RS	Ref. PDB, TRSK						
on request								
53	striker snapper AF A0767	TRST0100- ...	1		1601–3000			

Hinge side turning points					
Pos.	**Description**	**Part number**		**required as per sash weight**	
		surface TS	RAL7037	130 kg	150 kg
54	corner hinge AX	Ref. PDB, TBEB41		1	1
55	cover cap AX EL	Ref. PDB, TKEL41		1	1
56	bottom hinge AX	Ref. PDB, TBEV41		1	1

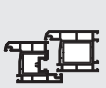
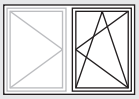
List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							24	25
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	480 – 1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480 – 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681 – 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851 – 1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051 – 1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251 – 1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451 – 1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480 – 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681 – 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851 – 1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051 – 1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251 – 1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451 – 1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	480 – 1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251 – 1650				1
6	additional stay	Ref. PDB, TSZS	1	1251 – 1650				
7	packer Z	Ref. PDB, FRUP01	1	1251 – 1650				
8	tilt restr. additional stay ..	889008	1	1251 – 1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681 – 1050	460 – 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051 – 1250	460 – 900			
10a	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	480 – 1650	460 – 800		1	
10b	corn.drive AF VSU/K+ FH 1S 1RS A0055	TEUL5020- ...	1	480 – 1650	801 – 3000		1	
11	extension sz 1+ 1RS	TVSO0200- ...	1	480 – 500				1
	extension sz 2+ 1RS	TVSL0320- ...		501 – 680				1
	extension sz 3+ 1RS	TVSL0330- ...		681 – 850				1
	extension sz 2+ 1RS	TVSL0320- ...		851 – 1250				1
	extension sz 4+ 1RS	TVSL0340- ...		1251 – 1450				1
	extension sz 3+ 1RS	TVSL0330- ...		1451 – 1650				1
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451 – 1650				1
13	gear 15 AF sz 20	TGMK4010- ...	1		460 – 600	230 – 300		
	gear 15 AF sz 60	TGMK4020- ...			601 – 800	300 – 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801 – 1200	400 – 600		
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201 – 1600	600 – 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601 – 2000	800 – 1000		
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001 – 3000	1000 – 1500		
14	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401 – 2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000			
15	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460 – 3000			
16	anti-drill guard E	TGBS0010- ...	1		460 – 3000			
17a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460 – 800			1
17b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000			2
18	extension sz 2+ 1RS	TVSL0320- ...	1		601 – 800			1
	extension sz 1+ 1RS	TVSO0200- ...			801 – 1000			1
	extension sz 3+ 1RS	TVSL0330- ...			1001 – 1400			1
	extension sz 2+ 1RS	TVSL0320- ...			1401 – 1800			1
	extension sz 4+ 1RS	TVSL0340- ...			1801 – 2000			1
	extension sz 3+ 1RS	TVSL0330- ...			2001 – 2200			1
	extension sz 5+ 1RS	TVSL0350- ...			2201 – 2400			1
	extension sz 4+ 1RS	TVSL0340- ...			2401 – 2600			1
	extension sz 4+ 1RS	TVSL0340- ...			2601 – 2800			1
	extension sz 3+ 1RS	TVSL0330- ...			2801 – 3000			1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000			1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000			1
21	anti-lift device	Ref. PDB, TFAH	1		460 – 3000			
22	Air gap limiter	Ref. PDB, FRFL	1		460 – 3000			
23	packer RB/FPS	Ref. PDB, FRUP02	1		460 – 3000			

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+

TITAN AF

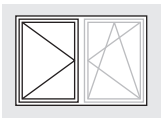
RC2

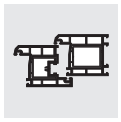
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							24	25
24	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
25	striker plate S-RS	Ref. PDB, TRSK						
on request								
26	mishandling device	TFBS0010- ...	1					
27	pressure piece	Ref. PDB, TFFD	1					
28	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

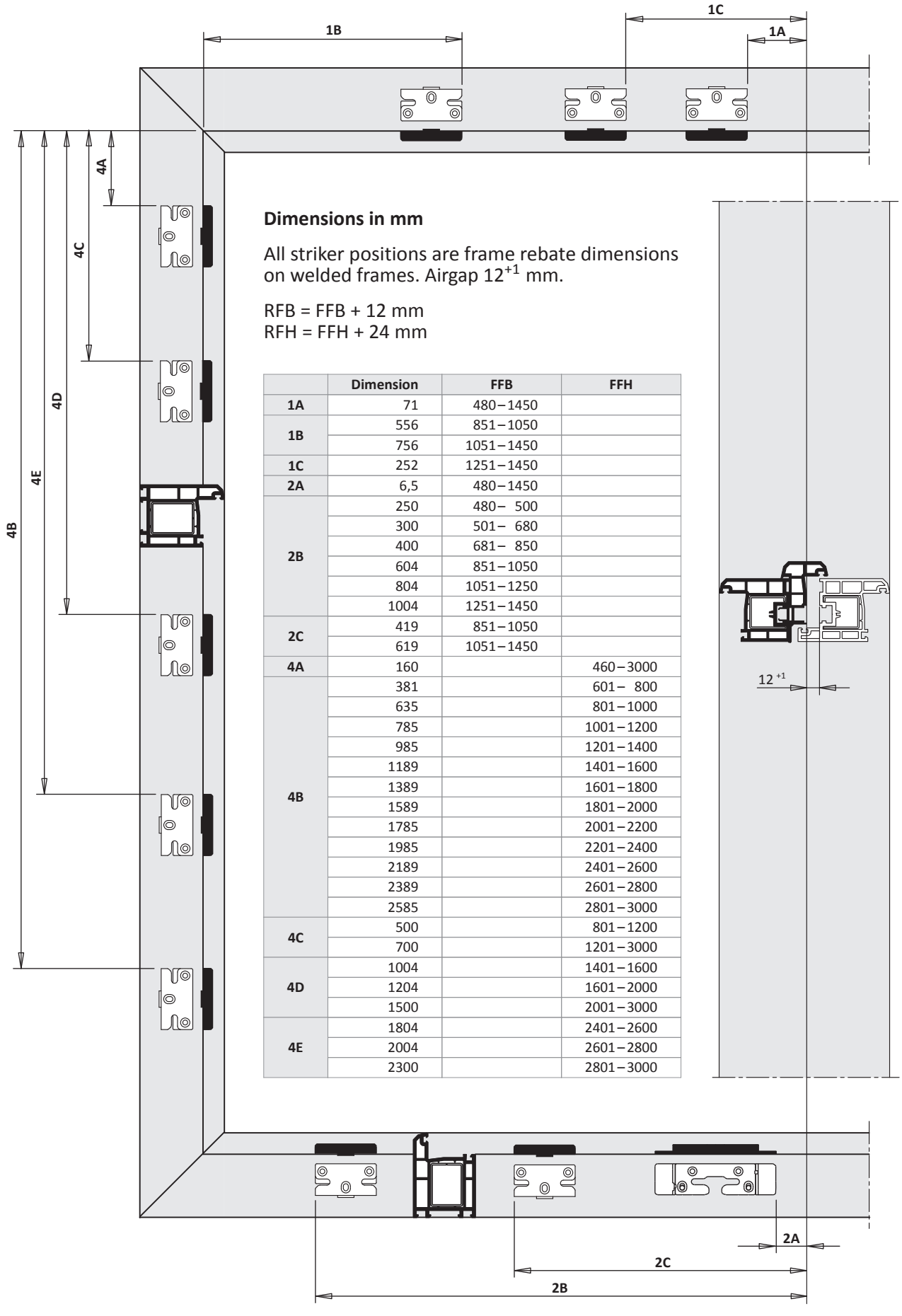
Hinge side turning points					
Pos.	**Description**	**Part number**		**required as per sash weight**	
		surface TS	RAL7037	130 kg	150 kg
29	corner hinge AX	Ref. PDB, TBEB41		1	1
30	cover cap AX EL	Ref. PDB, TKEL41		1	1
31	bottom hinge AX	Ref. PDB, TBEV41		1	1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+





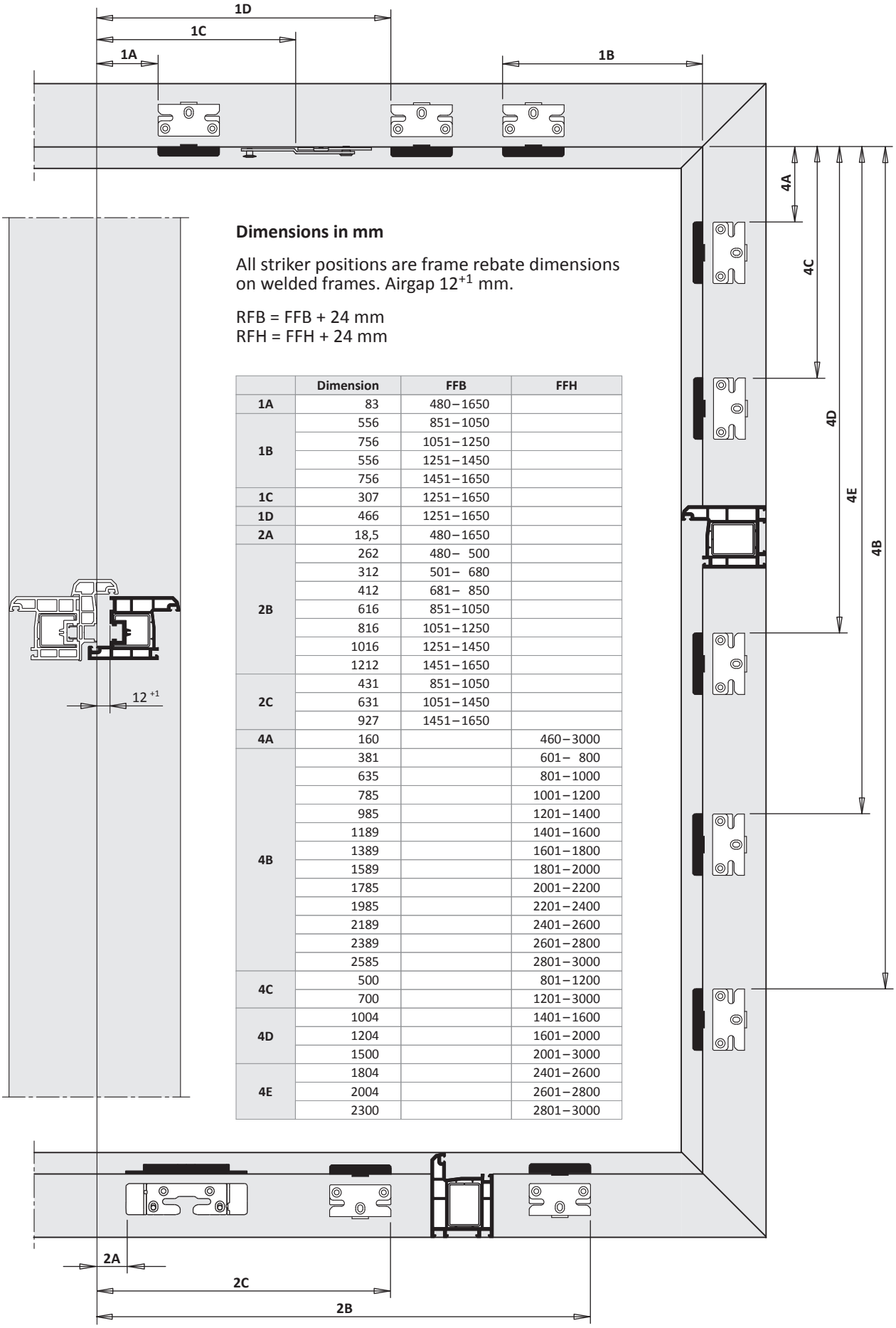


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	480–1450	
1B	556	851–1050	
	756	1051–1450	
1C	252	1251–1450	
2A	6,5	480–1450	
2B	250	480– 500	
	300	501– 680	
	400	681– 850	
	604	851–1050	
	804	1051–1250	
	1004	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		460–3000
4B	381		601– 800
	635		801–1000
	785		1001–1200
	985		1201–1400
	1189		1401–1600
	1389		1601–1800
	1589		1801–2000
	1785		2001–2200
	1985		2201–2400
	2189		2401–2600
	2389		2601–2800
	2585		2801–3000
4C	500		801–1200
	700		1201–3000
4D	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4E	1804		2401–2600
	2004		2601–2800
	2300		2801–3000



Dimensions in mm

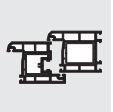
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480 – 1650	
1B	556	851 – 1050	
	756	1051 – 1250	
	556	1251 – 1450	
	756	1451 – 1650	
1C	307	1251 – 1650	
1D	466	1251 – 1650	
2A	18,5	480 – 1650	
2B	262	480 – 500	
	312	501 – 680	
	412	681 – 850	
	616	851 – 1050	
	816	1051 – 1250	
	1016	1251 – 1450	
	1212	1451 – 1650	
2C	431	851 – 1050	
	631	1051 – 1450	
	927	1451 – 1650	
4A	160		460 – 3000
4B	381		601 – 800
	635		801 – 1000
	785		1001 – 1200
	985		1201 – 1400
	1189		1401 – 1600
	1389		1601 – 1800
	1589		1801 – 2000
	1785		2001 – 2200
	1985		2201 – 2400
	2189		2401 – 2600
	2389		2601 – 2800
	2585		2801 – 3000
4C	500		801 – 1200
	700		1201 – 3000
4D	1004		1401 – 1600
	1204		1601 – 2000
	1500		2001 – 3000
4E	1804		2401 – 2600
	2004		2601 – 2800
	2300		2801 – 3000

TITAN AF

Installation instructions



RC2

1-sash square tilt-turn

PVC

RC2

centre handle pos. (variable)

Hinge side axxent 24+

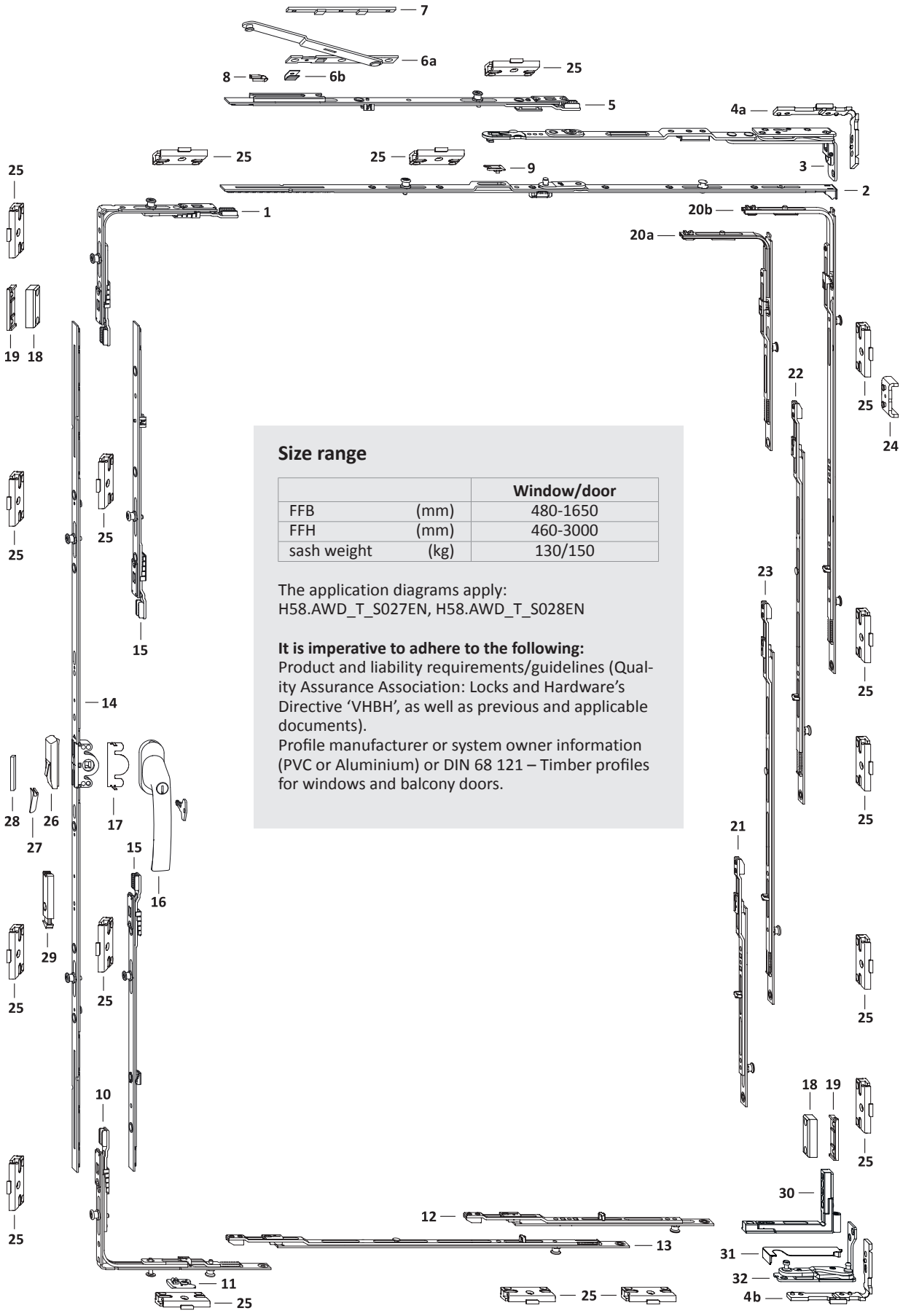
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout

1-sash square tilt-turn
PVC GM Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	480-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

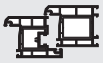
The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							25
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	480 – 1650			2
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480 – 680			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681 – 850			
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851 – 1050			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051 – 1250			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251 – 1450			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451 – 1650			1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480 – 680			
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681 – 850			
	stay arm AX sz 4	Ref. PDB, TSAV44		851 – 1050			
	stay arm AX sz 5	Ref. PDB, TSAV45		1051 – 1250			
	stay arm AX sz 4	Ref. PDB, TSAV44		1251 – 1450			
	stay arm AX sz 5	Ref. PDB, TSAV45		1451 – 1650			
4	crt. accessories AX	Ref. PDB, TMZV41	1	480 – 1650			
5	linkage additional stay 1RS	TZOK1010- ...	1	1251 – 1650			1
6	additional stay	Ref. PDB, TSZS	1	1251 – 1650			
7	packer Z	Ref. PDB, FRUP01	1	1251 – 1650			
8	tilt restr. additional stay ..	889008	1	1251 – 1650			
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681 – 1050	460 – 900		
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051 – 1250	460 – 900		
10	corn.drive AF VSU/K 56+ 1S 2RS	TEUL5040- ...	1	480 – 1650			2
11	run up block AF 13 mm 13	TFFH0080- ...	1	480 – 1650			
12	extension sz 1+ 1RS	TVSO0200- ...	1	480 – 500			1
	extension sz 2+ 1RS	TVSL0320- ...		501 – 680			1
	extension sz 3+ 1RS	TVSL0330- ...		681 – 850			1
	extension sz 2+ 1RS	TVSL0320- ...		851 – 1250			1
	extension sz 4+ 1RS	TVSL0340- ...		1251 – 1450			1
	extension sz 3+ 1RS	TVSL0330- ...		1451 – 1650			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451 – 1650			1
14	gear 15 AF sz 20	TGMK4010- ...	1		460 – 600	230 – 300	
	gear 15 AF sz 60	TGMK4020- ...			601 – 800	300 – 400	
	gear 15 AF sz 80 1RS	TGMK4040- ...			801 – 1200	400 – 600	1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201 – 1600	600 – 800	1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601 – 2000	800 – 1000	2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001 – 3000	1000 – 1500	2
15	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401 – 2800		2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000		2
16	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460 – 3000		
17	anti-drill guard E	TGBS0010- ...	1		460 – 3000		
18	Air gap limiter	Ref. PDB, FRFL	2		460 – 3000		
19	packer RB/FPS	Ref. PDB, FRUP02	2		460 – 3000		
20a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460 – 800		1
20b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000		2
21	extension sz 2+ 1RS	TVSL0320- ...	1		601 – 800		1
	extension sz 1+ 1RS	TVSO0200- ...			801 – 1000		1
	extension sz 3+ 1RS	TVSL0330- ...			1001 – 1400		1
	extension sz 2+ 1RS	TVSL0320- ...			1401 – 1800		1
	extension sz 4+ 1RS	TVSL0340- ...			1801 – 2000		1
	extension sz 3+ 1RS	TVSL0330- ...			2001 – 2200		1
	extension sz 5+ 1RS	TVSL0350- ...			2201 – 2400		1
	extension sz 4+ 1RS	TVSL0340- ...			2401 – 2600		1
	extension sz 4+ 1RS	TVSL0340- ...			2601 – 2800		1
	extension sz 3+ 1RS	TVSL0330- ...			2801 – 3000		1
22	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000		1
23	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000		1
24	anti-lift device	Ref. PDB, TFAH	1		460 – 3000		

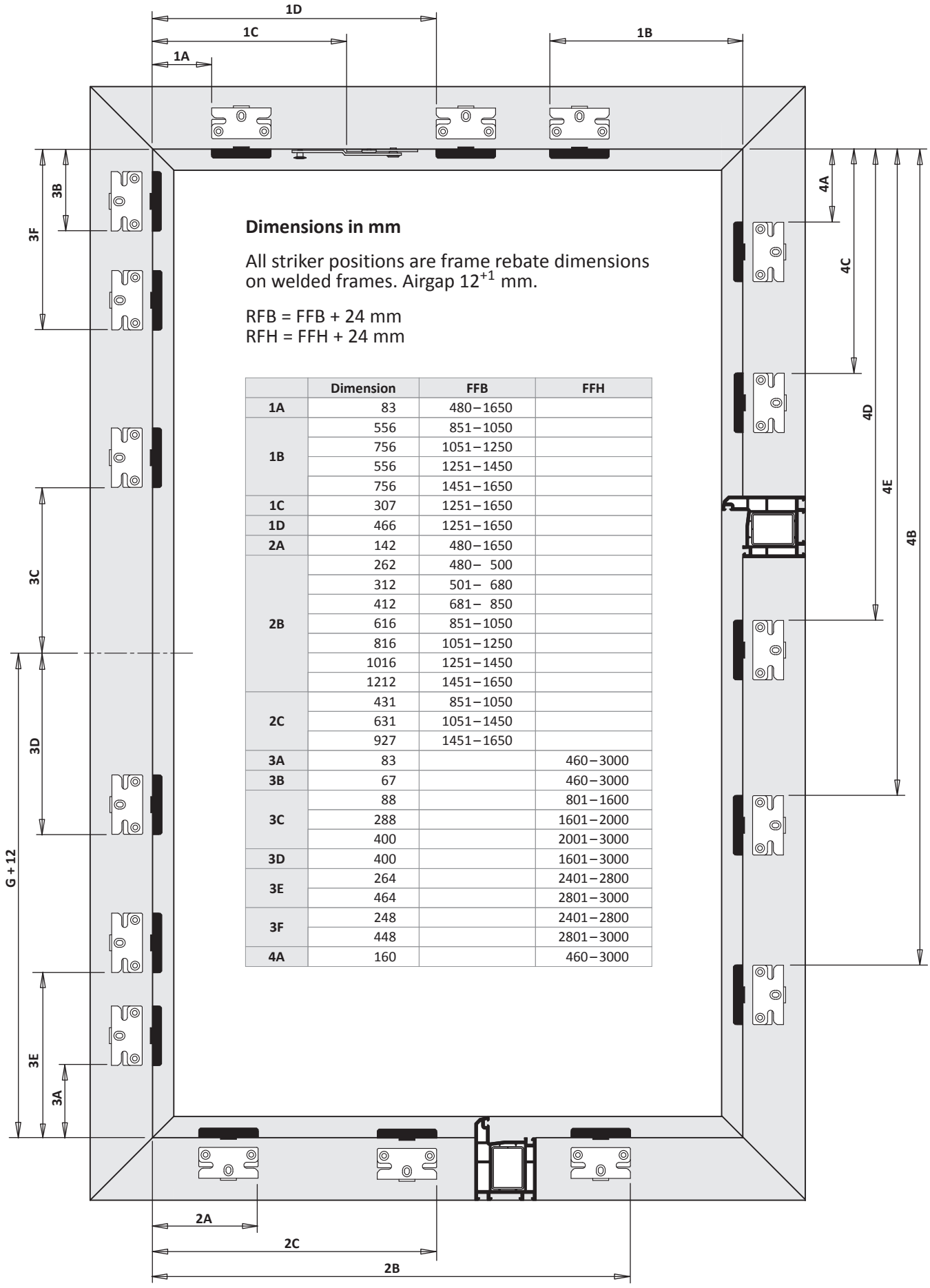
List of fittings

1-sash square tilt-turn
PVC GM Hinge side axxent 24+



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							25
25	striker plate S-RS	Ref. PDB, TRSK					
on request							
26	mishandling device	TFBS0010- ...	1				
27	pressure piece	Ref. PDB, TFFD	1				
28	stop	Ref. PDB, FRZF01	1				
29	snapper rh.	TFST0021- ...	1		1601–3000		
	snapper lh.	TFST0022- ...			1601–3000		

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
30	corner hinge AX	Ref. PDB, TBEB41		1	1
31	cover cap AX EL	Ref. PDB, TKEL41		1	1
32	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

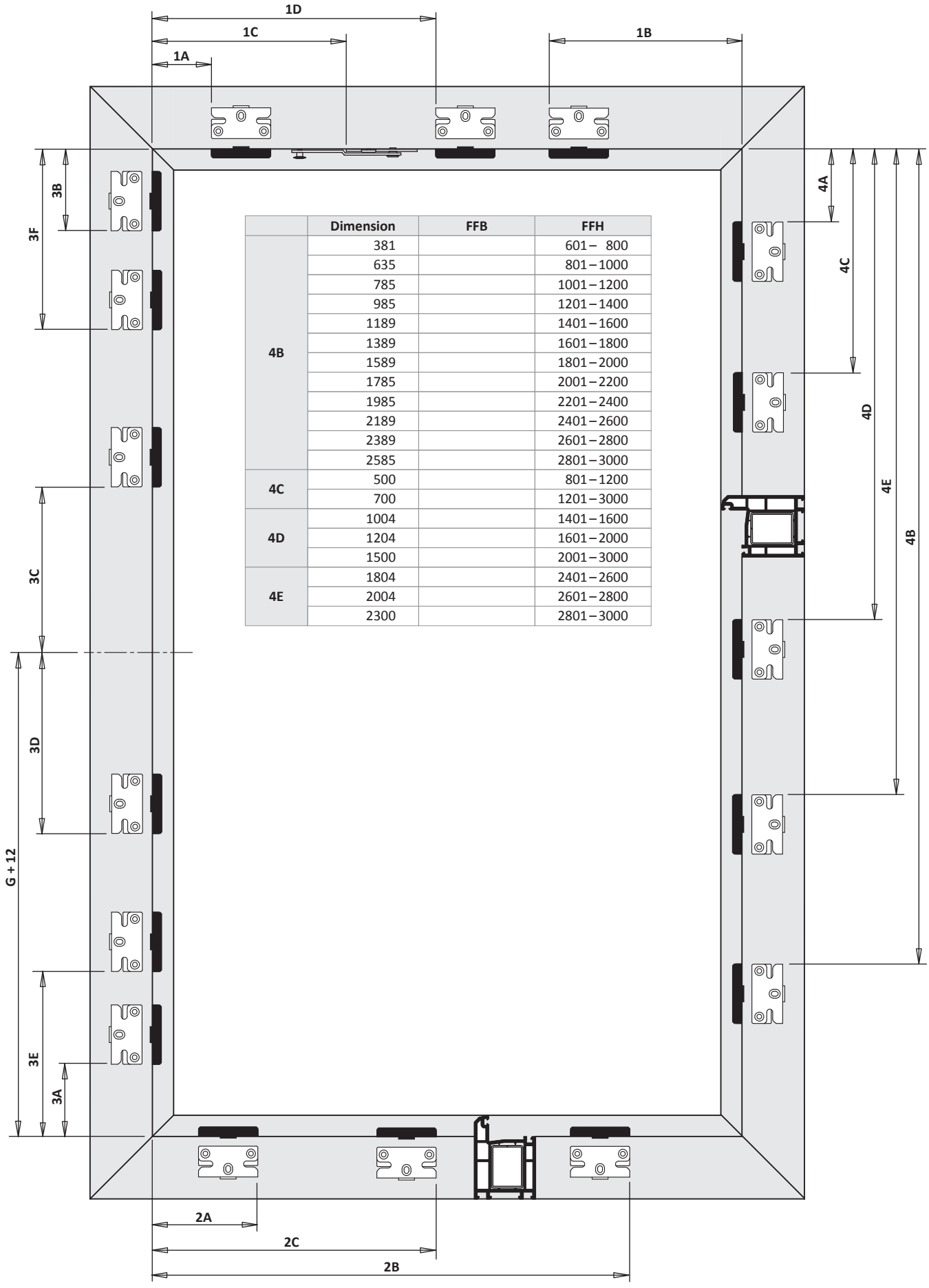
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	480–1650	
2B	262	480– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1212	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	83		460–3000
3B	67		460–3000
3C	88		801–1600
	288		1601–2000
	400		2001–3000
3D	400		1601–3000
3E	264		2401–2800
	464		2801–3000
3F	248		2401–2800
	448		2801–3000
4A	160		460–3000

Frame dimensions

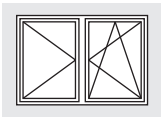
1-sash square tilt-turn
PVC GM Hinge side axxent 24+

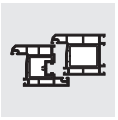


	Dimension	FFB	FFH
4B	381		601 – 800
	635		801 – 1000
	785		1001 – 1200
	985		1201 – 1400
	1189		1401 – 1600
	1389		1601 – 1800
	1589		1801 – 2000
	1785		2001 – 2200
	1985		2201 – 2400
	2189		2401 – 2600
	2389		2601 – 2800
	2585		2801 – 3000
4C	500		801 – 1200
	700		1201 – 3000
4D	1004		1401 – 1600
	1204		1601 – 2000
	1500		2001 – 3000
4E	1804		2401 – 2600
	2004		2601 – 2800
	2300		2801 – 3000

TITAN AF

Installation instructions





RC2

2-sash square tilt-turn/turn DS 16

PVC

RC2

centre handle pos. (variable)

Hinge side axxent 24+

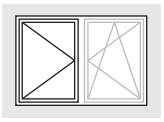
surface TS

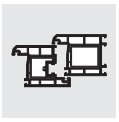
backset 15 mm

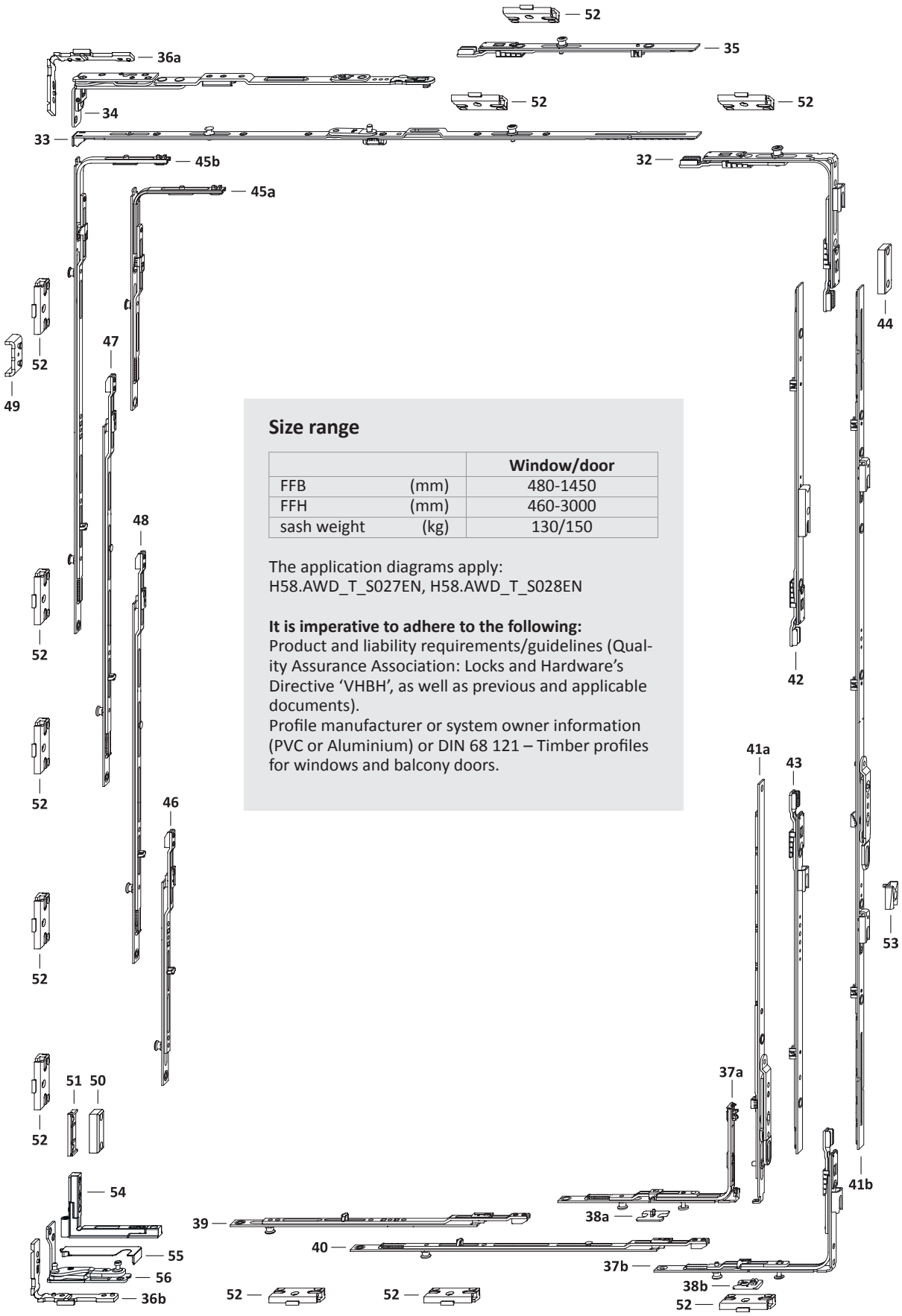
Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+





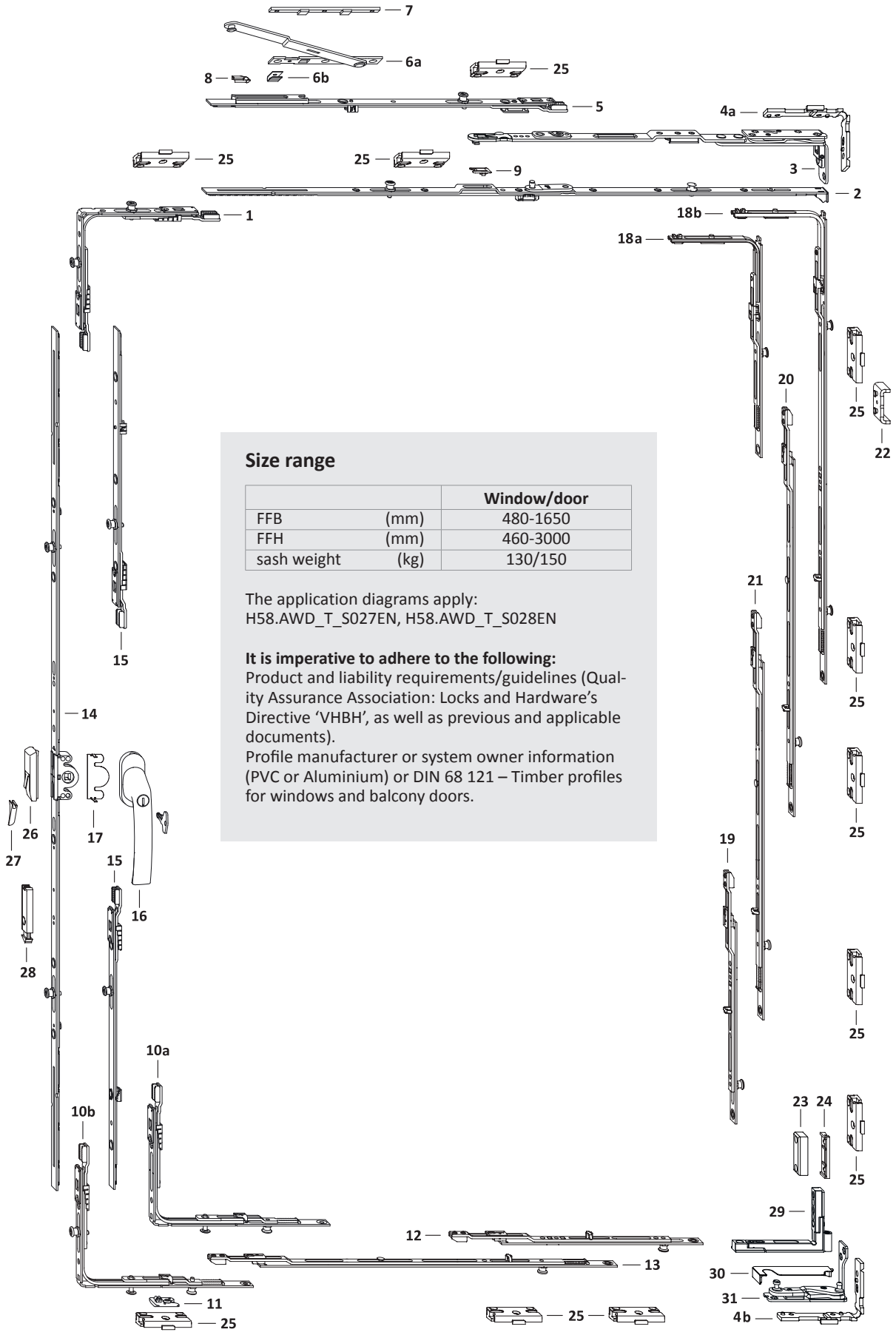


Size range

		Window/door
FFB	(mm)	480-1450
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

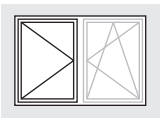
		Window/door
FFB	(mm)	480-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

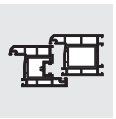
The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

List of fittings slave sash

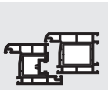
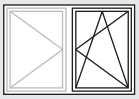
2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
						In the main sash	51
32	corn.drive AF VSO WK2 SB 1RS	TEUL4080- ...	1	480 – 1450			1
33	stay sash part AF AX sz 1	TSSV4000- ...	1	480 – 680			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681 – 850			
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851 – 1050			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051 – 1450			1
34	stay arm AX sz 1	Ref. PDB, TSAV41	1	480 – 680			
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681 – 850			
	stay arm AX sz 4	Ref. PDB, TSAV44		851 – 1050			
	stay arm AX sz 5	Ref. PDB, TSAV45		1051 – 1050			
35	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251 – 1450			1
36	crt. accessories AX	Ref. PDB, TMZV41	1	480 – 1450			
37a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480 – 1450	460 – 800		1
37b	corn.drive AFVSU/K 56+ SB1S1RS	TEUL5120- ...	1	480 – 1450	801 – 3000		1
38a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480 – 1450	460 – 800		
38b	run up block AF 13 mm 13	TFFH0080- ...	1	480 – 1450	801 – 3000		
39	extension sz 1+ 1RS	TVSO0200- ...	1	480 – 500			1
	extension sz 2+ 1RS	TVSL0320- ...		501 – 680			1
	extension sz 3+ 1RS	TVSL0330- ...		681 – 850			1
	extension sz 2+ 1RS	TVSL0320- ...		851 – 1250			1
	extension sz 4+ 1RS	TVSL0340- ...		1251 – 1450			1
40	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450			1
41	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401 – 2800		
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801 – 3000		
42	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401 – 2800		
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801 – 3000		
43	air gap limiter F ..	TFFB0010- ...	1		460 – 3000		
44a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460 – 800		1
44b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000		2
45	extension sz 2+ 1RS	TVSL0320- ...	1		601 – 800		1
	extension sz 1+ 1RS	TVSO0200- ...			801 – 1000		1
	extension sz 3+ 1RS	TVSL0330- ...			1001 – 1400		1
	extension sz 2+ 1RS	TVSL0320- ...			1401 – 1800		1
	extension sz 4+ 1RS	TVSL0340- ...			1801 – 2000		1
	extension sz 3+ 1RS	TVSL0330- ...			2001 – 2200		1
	extension sz 5+ 1RS	TVSL0350- ...			2201 – 2400		1
	extension sz 4+ 1RS	TVSL0340- ...			2401 – 2600		1
	extension sz 4+ 1RS	TVSL0340- ...			2601 – 2800		1
	extension sz 3+ 1RS	TVSL0330- ...			2801 – 3000		1
46	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000		1
47	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000		1
48	anti-lift device	Ref. PDB, TFAH	1		460 – 3000		
49	Air gap limiter	Ref. PDB, FRFL	1		460 – 3000		
50	packer RB/FPS	Ref. PDB, FRUP02	1		460 – 3000		
51	striker plate S-RS	Ref. PDB, TRSK					
on request							
52	striker snapper AF A0767	TRST0100- ...	1		1601 – 3000		

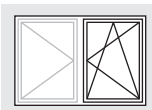
Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
53	corner hinge AX	Ref. PDB, TBEB41		1	1
54	cover cap AX EL	Ref. PDB, TKEL41		1	1
55	bottom hinge AX	Ref. PDB, TBEV41		1	1

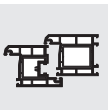



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							25
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	480 – 1650			1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480 – 680			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681 – 850			
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851 – 1050			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051 – 1250			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251 – 1450			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451 – 1650			1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480 – 680			
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681 – 850			
	stay arm AX sz 4	Ref. PDB, TSAV44		851 – 1050			
	stay arm AX sz 5	Ref. PDB, TSAV45		1051 – 1250			
	stay arm AX sz 4	Ref. PDB, TSAV44		1251 – 1450			
	stay arm AX sz 5	Ref. PDB, TSAV45		1451 – 1650			
4	crt. accessories AX	Ref. PDB, TMZV41	1	480 – 1650			
5	linkage additional stay 1RS	TZOK1010- ...	1	1251 – 1650			1
6	additional stay	Ref. PDB, TSZS	1	1251 – 1650			
7	packer Z	Ref. PDB, FRUP01	1	1251 – 1650			
8	tilt restr. additional stay ..	889008	1	1251 – 1650			
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681 – 1050	460 – 900		
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051 – 1250	460 – 900		
10a	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480 – 1650	460 – 800		1
10b	corn.drive AF VSU/K 56+ 1S 2RS	TEUL5040- ...	1	480 – 1650	801 – 3000		1
11	run up block AF 13 mm 13	TFFH0080- ...	1	480 – 1650			
12	extension sz 1+ 1RS	TVSO0200- ...	1	480 – 500			1
	extension sz 2+ 1RS	TVSL0320- ...		501 – 680			1
	extension sz 3+ 1RS	TVSL0330- ...		681 – 850			1
	extension sz 2+ 1RS	TVSL0320- ...		851 – 1250			1
	extension sz 4+ 1RS	TVSL0340- ...		1251 – 1450			1
	extension sz 3+ 1RS	TVSL0330- ...		1451 – 1650			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451 – 1650			1
14	gear 15 AF sz 20	TGMK4010- ...	1		460 – 600	230 – 300	
	gear 15 AF sz 60	TGMK4020- ...			601 – 800	300 – 400	
	gear 15 AF sz 80 1RS	TGMK4040- ...			801 – 1200	400 – 600	
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201 – 1600	600 – 800	
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601 – 2000	800 – 1000	
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001 – 3000	1000 – 1500	
15	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401 – 2800		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000		
16	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460 – 3000		
17	anti-drill guard E	TGBS0010- ...	1		460 – 3000		
18a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460 – 800		1
18b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000		2
19	extension sz 2+ 1RS	TVSL0320- ...	1		601 – 800		1
	extension sz 1+ 1RS	TVSO0200- ...			801 – 1000		1
	extension sz 3+ 1RS	TVSL0330- ...			1001 – 1400		1
	extension sz 2+ 1RS	TVSL0320- ...			1401 – 1800		1
	extension sz 4+ 1RS	TVSL0340- ...			1801 – 2000		1
	extension sz 3+ 1RS	TVSL0330- ...			2001 – 2200		1
	extension sz 5+ 1RS	TVSL0350- ...			2201 – 2400		1
	extension sz 4+ 1RS	TVSL0340- ...			2401 – 2600		1
	extension sz 4+ 1RS	TVSL0340- ...			2601 – 2800		1
	extension sz 3+ 1RS	TVSL0330- ...			2801 – 3000		1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000		1
21	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000		1
22	anti-lift device	Ref. PDB, TFAH	1		460 – 3000		
23	Air gap limiter	Ref. PDB, FRFL	1		460 – 3000		

List of fittings main sash

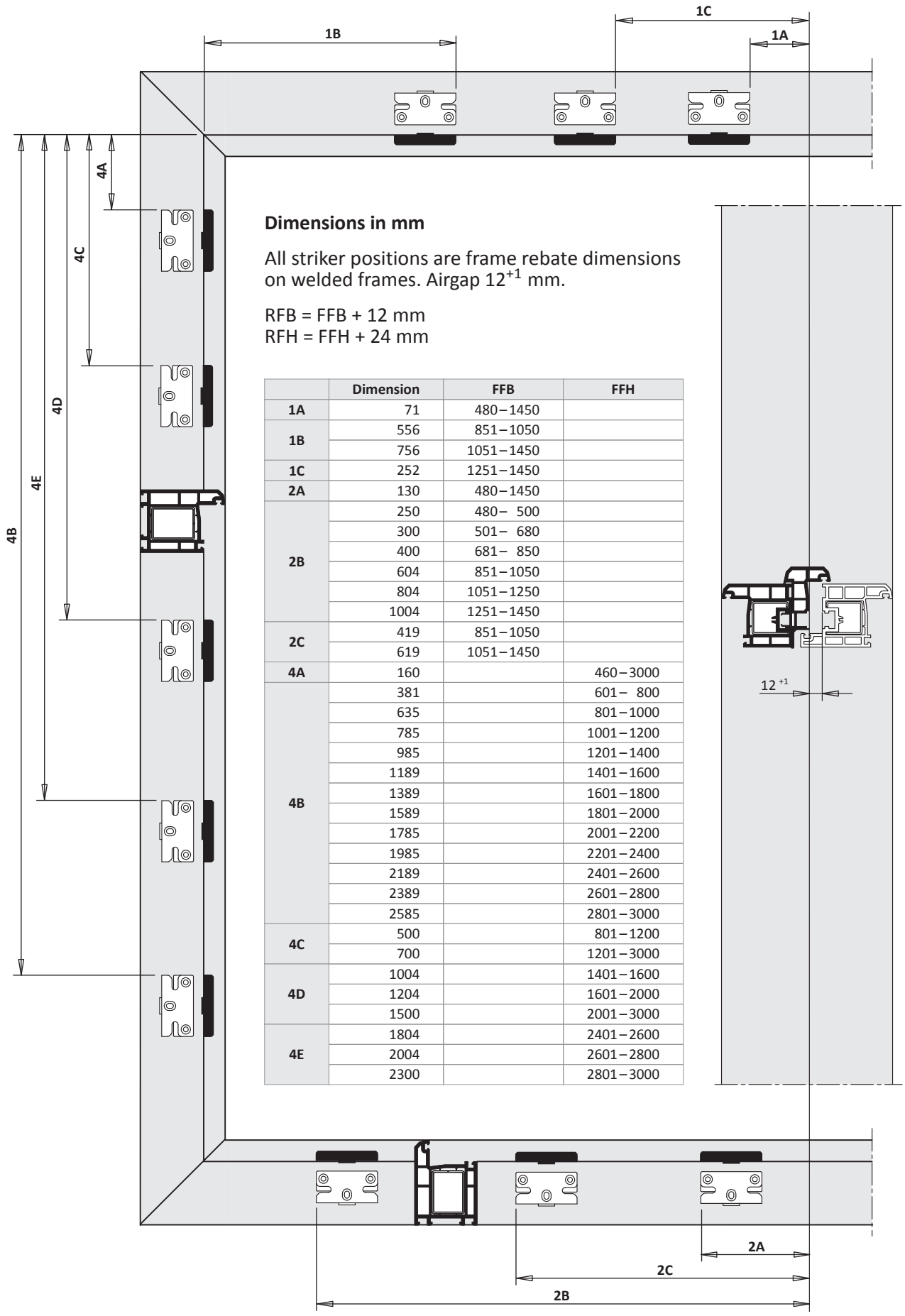
2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							25
24	packer RB/FPS	Ref. PDB, FRUP02	1		460 – 3000		
25	striker plate S-RS	Ref. PDB, TRSK					
on request							
26	mishandling device	TFBS0010- ...	1				
27	pressure piece	Ref. PDB, TFFD	1				
28	snapper rh.	TFST0021- ...	1		1601 – 3000		
	snapper lh.	TFST0022- ...			1601 – 3000		

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
29	corner hinge AX	Ref. PDB, TBEB41		1	1
30	cover cap AX EL	Ref. PDB, TKEL41		1	1
31	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

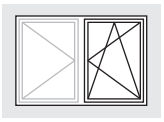
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

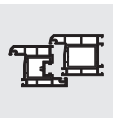
RFB = FFB + 12 mm
RFH = FFH + 24 mm

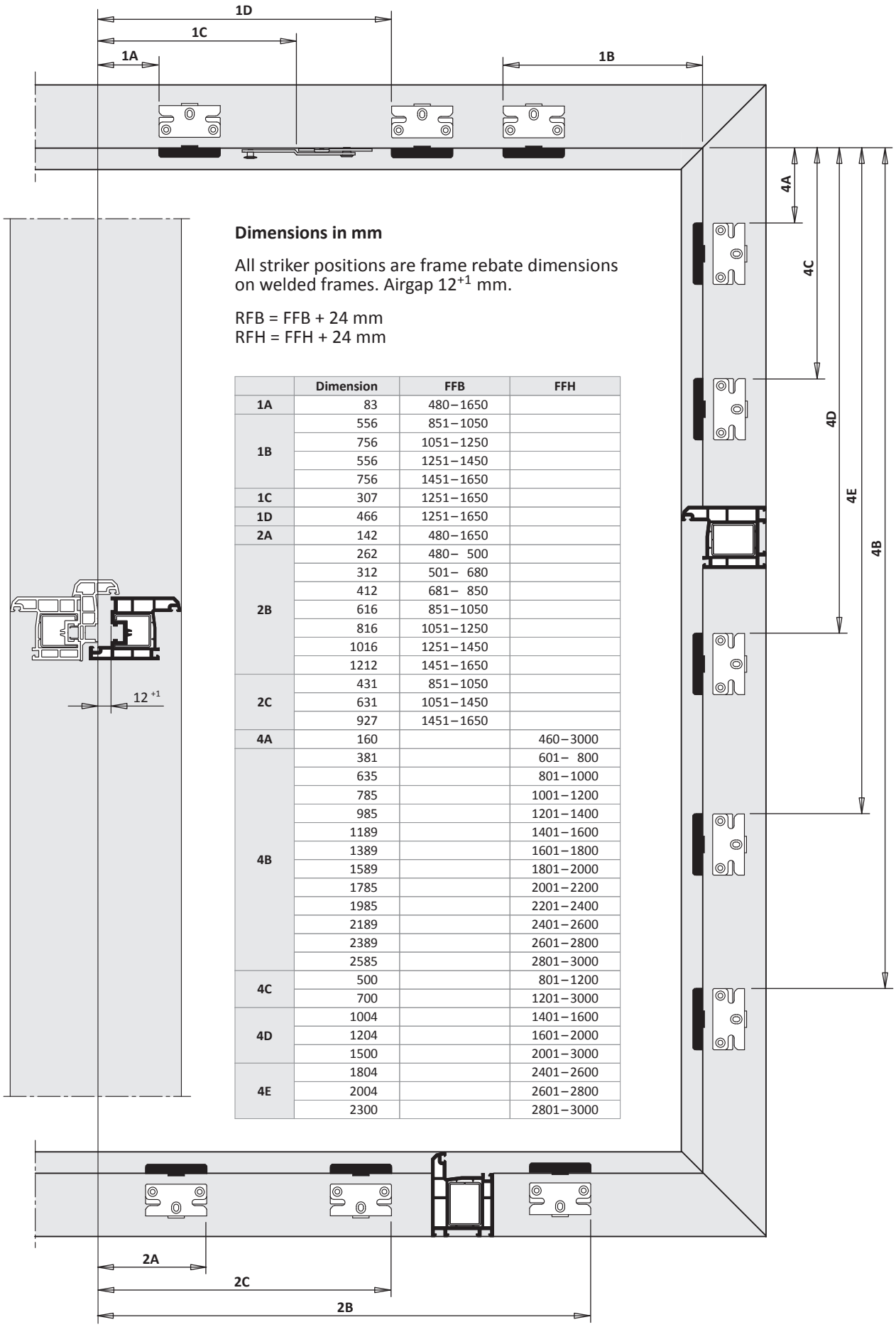
	Dimension	FFB	FFH
1A	71	480–1450	
1B	556	851–1050	
	756	1051–1450	
1C	252	1251–1450	
2A	130	480–1450	
2B	250	480– 500	
	300	501– 680	
	400	681– 850	
	604	851–1050	
	804	1051–1250	
	1004	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		460–3000
4B	381		601– 800
	635		801–1000
	785		1001–1200
	985		1201–1400
	1189		1401–1600
	1389		1601–1800
	1589		1801–2000
	1785		2001–2200
	1985		2201–2400
	2189		2401–2600
	2389		2601–2800
	2585		2801–3000
4C	500		801–1200
	700		1201–3000
4D	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4E	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+







Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480 – 1650	
1B	556	851 – 1050	
	756	1051 – 1250	
	556	1251 – 1450	
	756	1451 – 1650	
1C	307	1251 – 1650	
1D	466	1251 – 1650	
2A	142	480 – 1650	
2B	262	480 – 500	
	312	501 – 680	
	412	681 – 850	
	616	851 – 1050	
	816	1051 – 1250	
	1016	1251 – 1450	
	1212	1451 – 1650	
2C	431	851 – 1050	
	631	1051 – 1450	
	927	1451 – 1650	
4A	160		460 – 3000
4B	381		601 – 800
	635		801 – 1000
	785		1001 – 1200
	985		1201 – 1400
	1189		1401 – 1600
	1389		1601 – 1800
	1589		1801 – 2000
	1785		2001 – 2200
	1985		2201 – 2400
	2189		2401 – 2600
	2389		2601 – 2800
	2585		2801 – 3000
4C	500		801 – 1200
	700		1201 – 3000
4D	1004		1401 – 1600
	1204		1601 – 2000
	1500		2001 – 3000
4E	1804		2401 – 2600
	2004		2601 – 2800
	2300		2801 – 3000

TITAN AF

Installation instructions

RC2

1-sash square tilt-turn

PVC

RC2

centre handle pos. (variable)

Hinge side axxent 24+

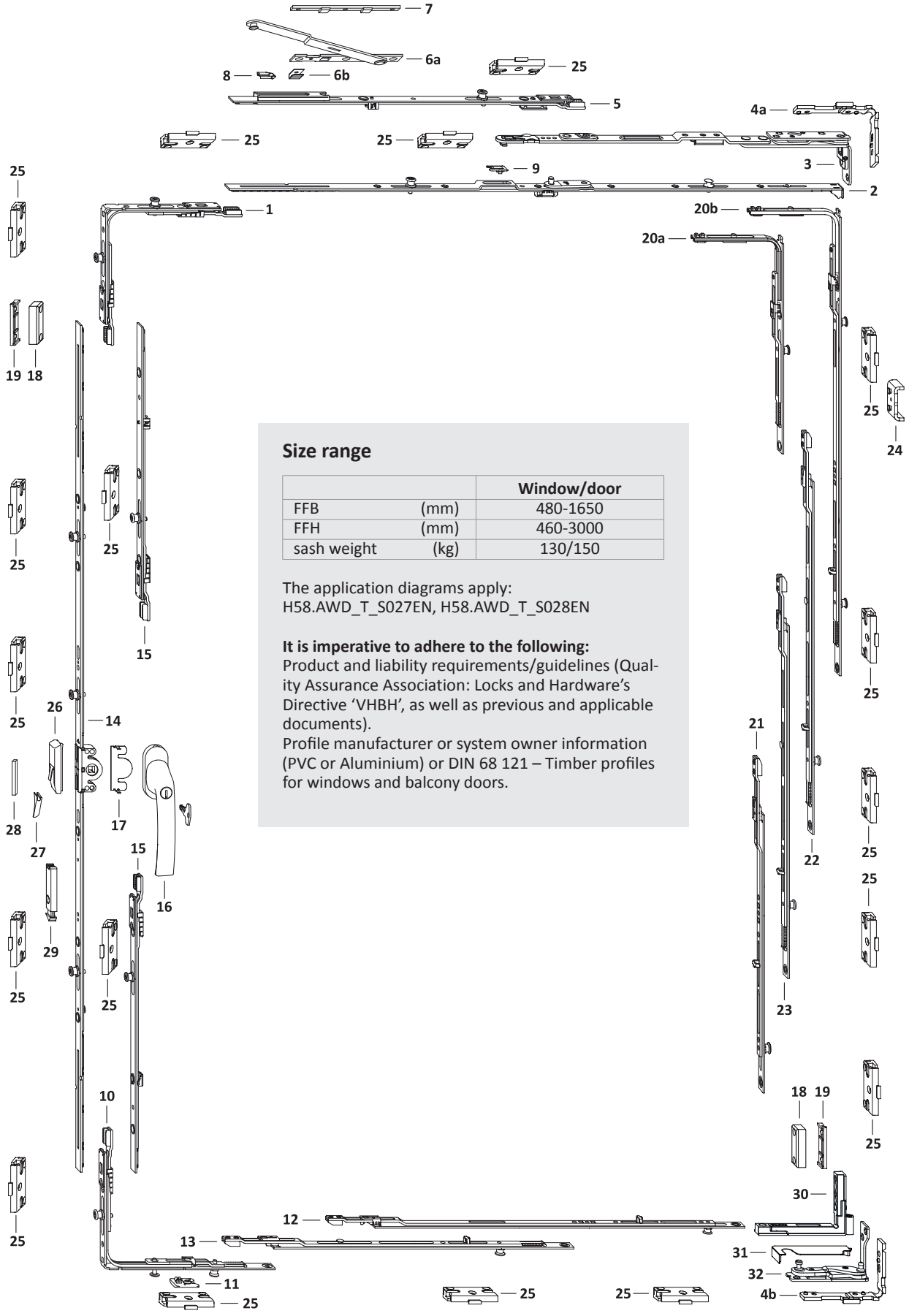
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout

1-sash square tilt-turn
PVC GM Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	480-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

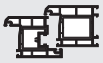
The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							25
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	480 – 1650			2
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480 – 680			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681 – 750			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751 – 850			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851 – 1050			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051 – 1250			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251 – 1450			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451 – 1650			1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480 – 680			
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681 – 850			
	stay arm AX sz 4	Ref. PDB, TSAV44		851 – 1050			
	stay arm AX sz 5	Ref. PDB, TSAV45		1051 – 1250			
	stay arm AX sz 4	Ref. PDB, TSAV44		1251 – 1450			
	stay arm AX sz 5	Ref. PDB, TSAV45		1451 – 1650			
4	crt. accessories AX	Ref. PDB, TMZV41	1	480 – 1650			
5	linkage additional stay 1RS	TZOK1010- ...	1	1251 – 1650			1
6	additional stay	Ref. PDB, TSZS	1	1251 – 1650			
7	packer Z	Ref. PDB, FRUP01	1	1251 – 1650			
8	tilt restr. additional stay ..	889008	1	1251 – 1650			
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681 – 1050	460 – 900		
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051 – 1250	460 – 900		
10	corn.drive AF VSU/K 56+ 1S 2RS	TEUL5040- ...	1	480 – 1650			2
11	run up block AF 13 mm 13	TFFH0080- ...	1	480 – 1650			
12	extension sz 1+ 1RS	TVSO0200- ...	1	480 – 500			1
	extension sz 2+ 1RS	TVSL0320- ...		501 – 680			1
	extension sz 3+ 1RS	TVSL0330- ...		681 – 850			1
	extension sz 2+ 1RS	TVSL0320- ...		851 – 1050			1
	extension sz 2+ 1RS	TVSL0320- ...		1051 – 1250			1
	extension sz 4+ 1RS	TVSL0340- ...		1251 – 1450			1
	extension sz 6+ 1RS	TVSL0360- ...		1451 – 1650			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1650			1
14	gear 15 AF sz 20	TGMK4010- ...	1		460 – 600	230 – 300	
	gear 15 AF sz 60	TGMK4020- ...			601 – 700	300 – 350	
	gear 15 AF sz 70 1RS	TGMK4030- ...			701 – 800	350 – 400	1
	gear 15 AF sz 80 1RS	TGMK4040- ...			801 – 1200	400 – 600	1
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201 – 1600	600 – 800	2
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601 – 2000	800 – 1000	2
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001 – 3000	1000 – 1500	3
15	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401 – 2800		2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000		2
16	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460 – 3000		
17	anti-drill guard E	TGBS0010- ...	1		460 – 3000		
18	Air gap limiter	Ref. PDB, FRFL	2		460 – 3000		
19	packer RB/FPS	Ref. PDB, FRUP02	2		460 – 3000		
20a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460 – 800		1
20b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000		2
21	extension sz 2+ 1RS	TVSL0320- ...	1		501 – 600		1
	extension sz 3+ 1RS	TVSL0330- ...			601 – 800		1
	extension sz 2+ 1RS	TVSL0320- ...			801 – 1000		1
	extension sz 4+ 1RS	TVSL0340- ...			1001 – 1400		1
	extension sz 2+ 1RS	TVSL0320- ...			1401 – 1600		1
	extension sz 2+ 1RS	TVSL0320- ...			1801 – 2000		1
	extension sz 4+ 1RS	TVSL0340- ...			2001 – 2200		1
	extension sz 6+ 1RS	TVSL0360- ...			2201 – 2400		1
	extension sz 5+ 1RS	TVSL0350- ...			2401 – 3000		1
22	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601 – 3000		1
23	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2801 – 3000		1
24	anti-lift device	Ref. PDB, TFAH	1		460 – 3000		

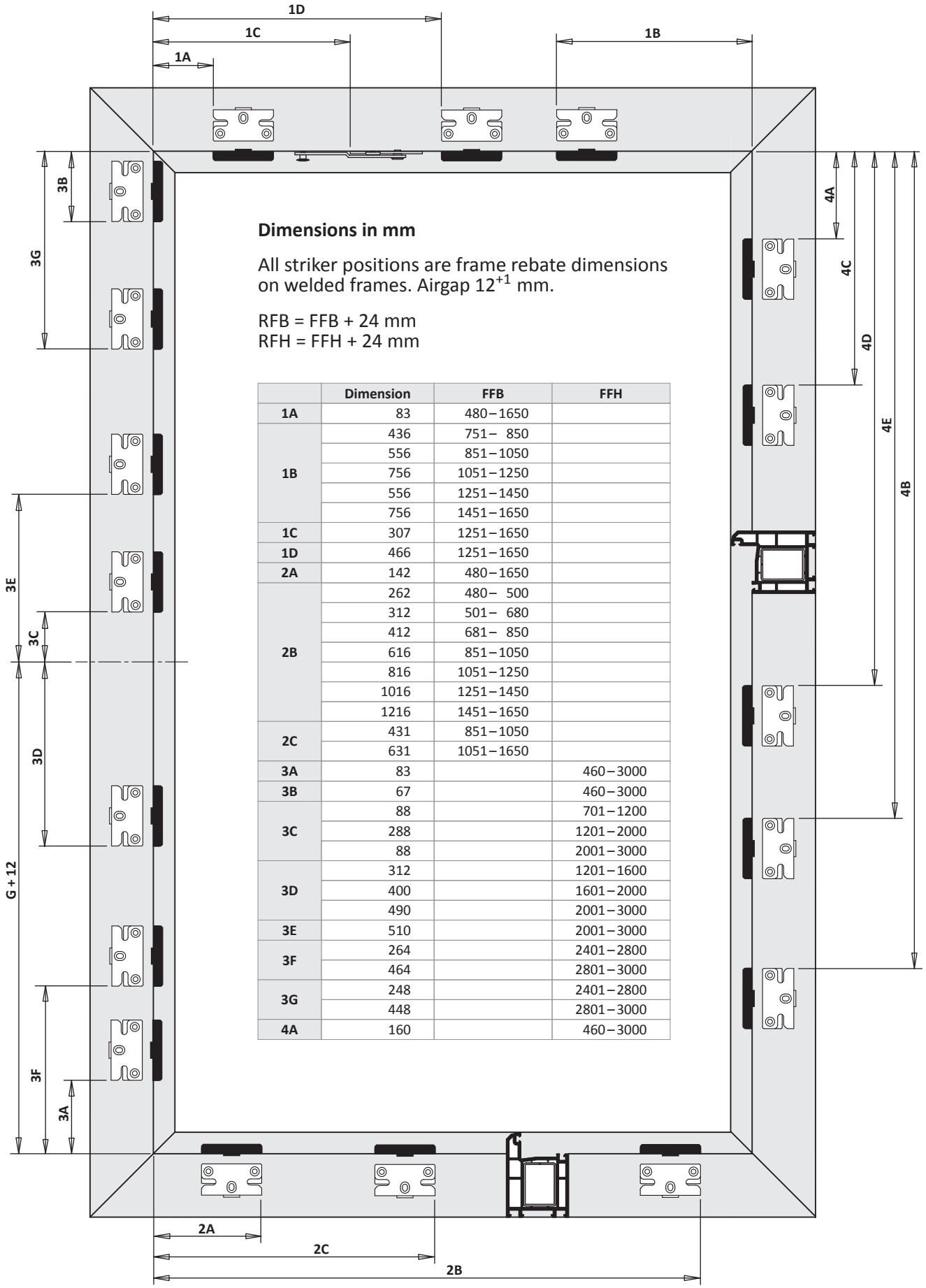
List of fittings

1-sash square tilt-turn
PVC GM Hinge side axxent 24+



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							25
25	striker plate S-RS	Ref. PDB, TRSK					
on request							
26	mishandling device	TFBS0010- ...	1				
27	pressure piece	Ref. PDB, TFFD	1				
28	stop	Ref. PDB, FRZF01	1				
29	snapper rh.	TFST0021- ...	1		1601–3000		
	snapper lh.	TFST0022- ...			1601–3000		

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
30	corner hinge AX	Ref. PDB, TBEB41		1	1
31	cover cap AX EL	Ref. PDB, TKEL41		1	1
32	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

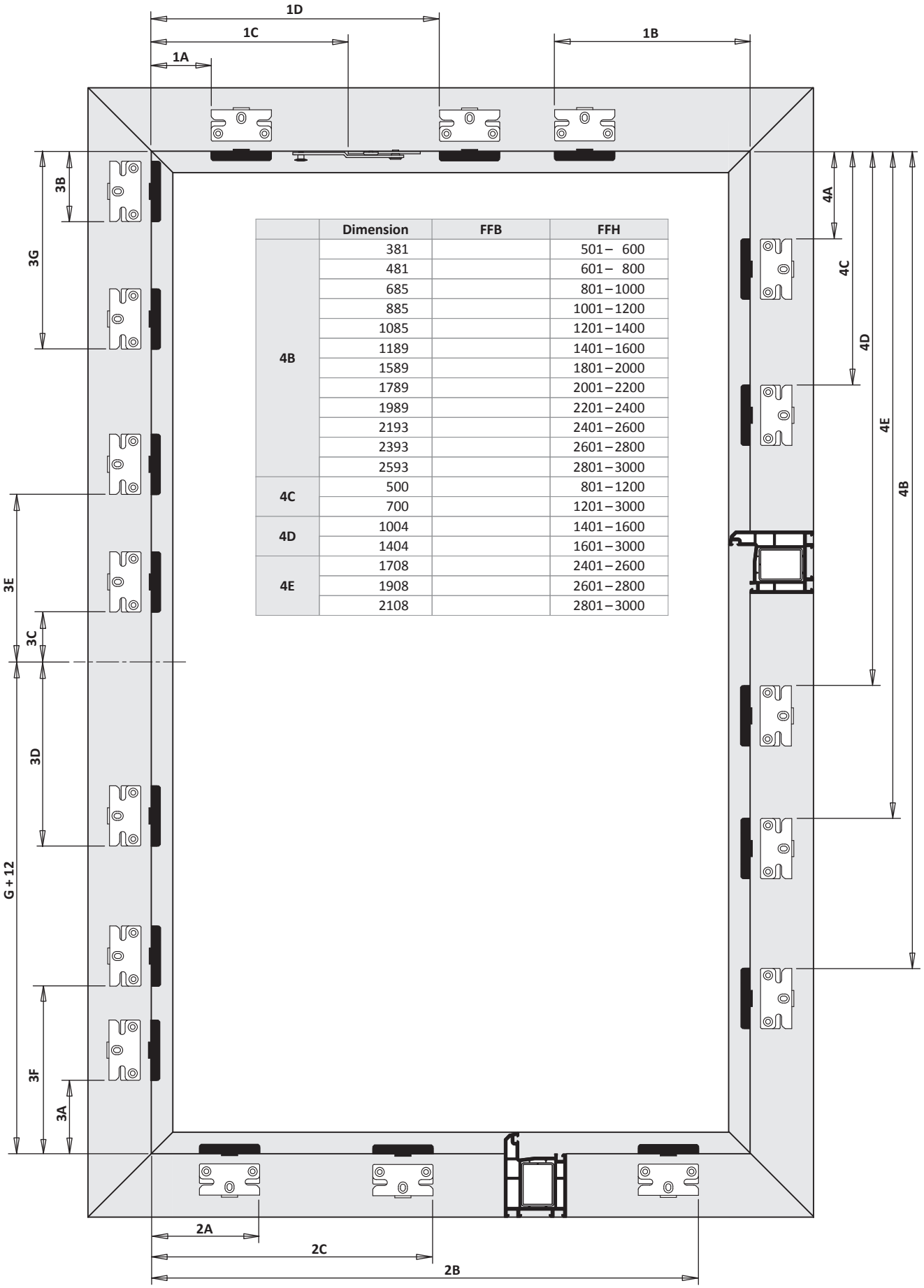
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	436	751– 850	
	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	480–1650	
2B	262	480– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1216	1451–1650	
2C	431	851–1050	
	631	1051–1650	
3A	83		460–3000
3B	67		460–3000
3C	88		701–1200
	288		1201–2000
	88		2001–3000
3D	312		1201–1600
	400		1601–2000
	490		2001–3000
3E	510		2001–3000
3F	264		2401–2800
	464		2801–3000
3G	248		2401–2800
	448		2801–3000
4A	160		460–3000

Frame dimensions

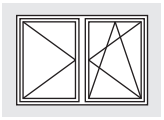
1-sash square tilt-turn
PVC GM Hinge side axxent 24+

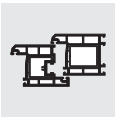


	Dimension	FFB	FFH
4B	381		501 – 600
	481		601 – 800
	685		801 – 1000
	885		1001 – 1200
	1085		1201 – 1400
	1189		1401 – 1600
	1589		1801 – 2000
	1789		2001 – 2200
	1989		2201 – 2400
	2193		2401 – 2600
	2393		2601 – 2800
	2593		2801 – 3000
4C	500		801 – 1200
	700		1201 – 3000
4D	1004		1401 – 1600
	1404		1601 – 3000
4E	1708		2401 – 2600
	1908		2601 – 2800
	2108		2801 – 3000

TITAN AF

Installation instructions





RC2

2-sash square tilt-turn/turn DS 16

PVC

RC2

centre handle pos. (variable)

Hinge side axxent 24+

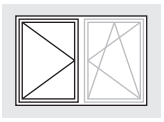
surface TS

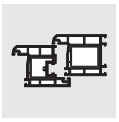
backset 15 mm

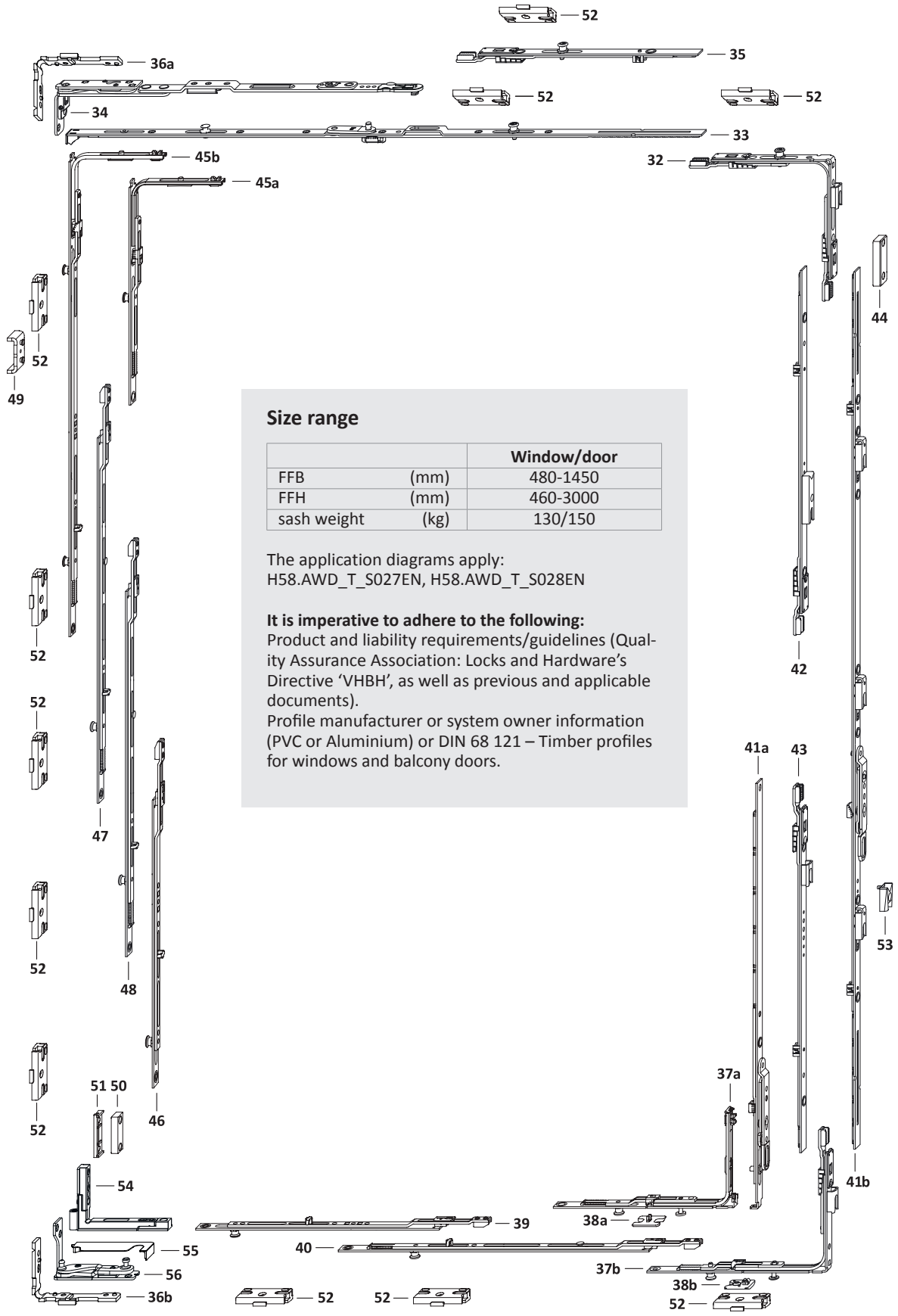
Hardware set configuration	
General	Locking-points distance 700
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+





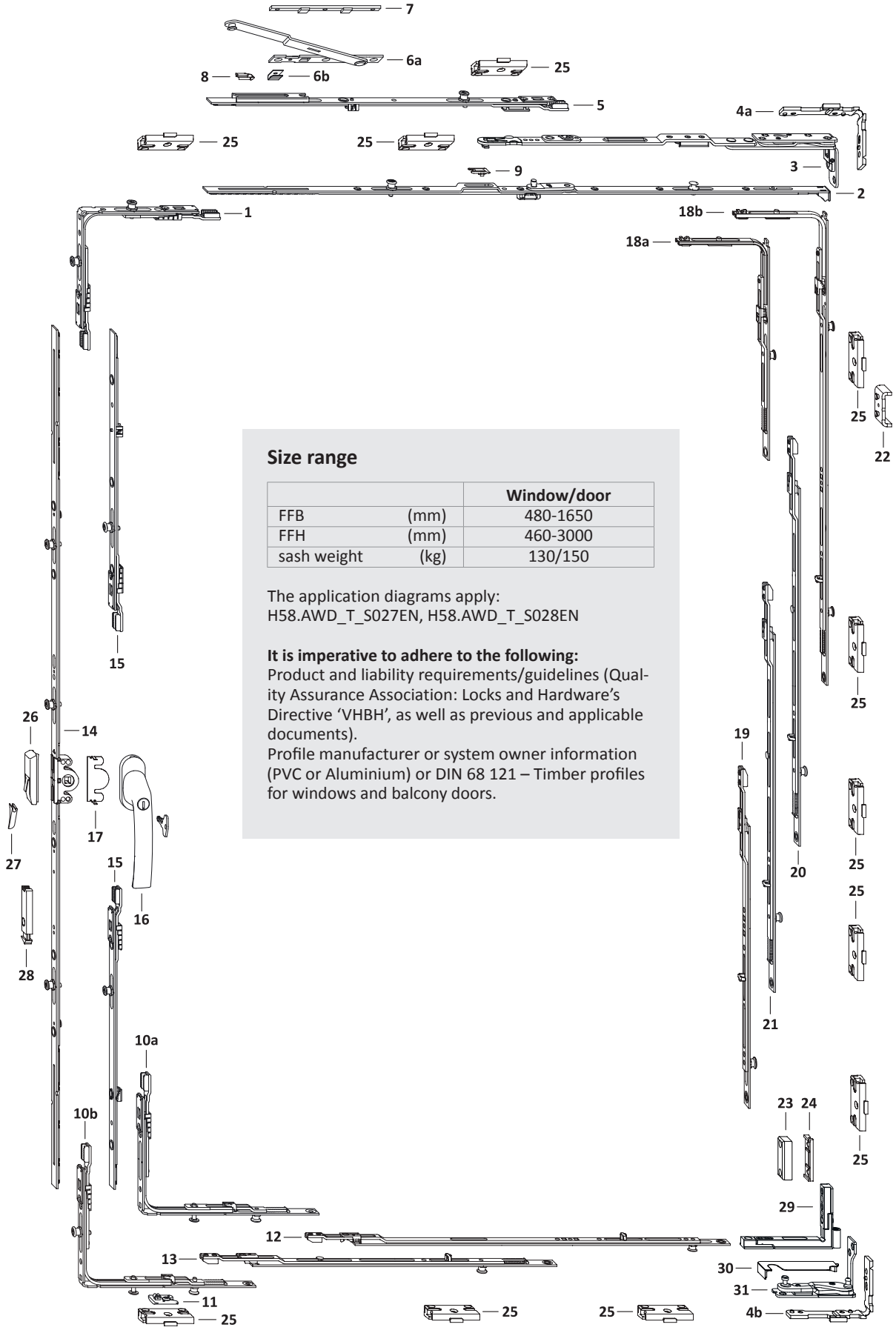


Size range

		Window/door
FFB	(mm)	480-1450
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

		Window/door
FFB	(mm)	480-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
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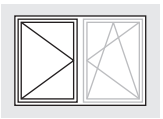
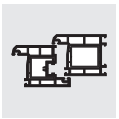
List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+



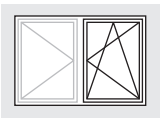


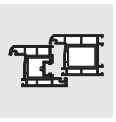
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
						In the main sash	52
32	corn.drive AF VSO WK2 SB 1RS	TEUL4080- ...	1	480–1450			1
33	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 750			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751– 850			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1450			1
34	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680			
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850			
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050			
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1050			
35	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450			1
36	crt. accessories AX	Ref. PDB, TMZV41	1	480–1450			
37a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480–1450	460– 800		1
37b	corn.drive AFVSU/K 56+ SB1S1RS	TEUL5120- ...	1	480–1450	801–3000		1
38a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480–1450	460– 800		
38b	run up block AF 13 mm 13	TFFH0080- ...	1	480–1450	801–3000		
39	extension sz 1+ 1RS	TVSO0200- ...	1	480– 500			1
	extension sz 2+ 1RS	TVSL0320- ...		501– 680			1
	extension sz 3+ 1RS	TVSL0330- ...		681– 850			1
	extension sz 2+ 1RS	TVSL0320- ...		851–1050			1
	extension sz 2+ 1RS	TVSL0320- ...		1051–1250			1
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450			1
40	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450			1
41a	sec.sash gear 16 sz 30	TGKS0010- ...	1		460– 600	230– 300	
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300– 350	
41b	sec.sash gear 16 AF sz 70 1SB	TGMS4030- ...	1		701– 800	350– 400	
	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...			801–1200	400– 600	
	sec.sash gear 16 AF 120 2SB 70	TGMS4120- ...			1201–1600	600– 800	
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000	
	sec.sash gear 16 AF 200 3SB 70	TGMS4100- ...			2001–3000	1000–1500	
42	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800		
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000		
43	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800		
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000		
44	air gap limiter F ..	TFFB0010- ...	1		460–3000		
45a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800		1
45b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
46	extension sz 2+ 1RS	TVSL0320- ...	1		501– 600		1
	extension sz 3+ 1RS	TVSL0330- ...			601– 800		1
	extension sz 2+ 1RS	TVSL0320- ...			801–1000		1
	extension sz 4+ 1RS	TVSL0340- ...			1001–1400		1
	extension sz 2+ 1RS	TVSL0320- ...			1401–1600		1
	extension sz 2+ 1RS	TVSL0320- ...			1801–2000		1
	extension sz 4+ 1RS	TVSL0340- ...			2001–2200		1
	extension sz 6+ 1RS	TVSL0360- ...			2201–2400		1
	extension sz 5+ 1RS	TVSL0350- ...			2401–3000		1
47	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000		1
48	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2801–3000		1
49	anti-lift device	Ref. PDB, TFAH	1		460–3000		
50	Air gap limiter	Ref. PDB, FRFL	1		460–3000		
51	packer RB/FPS	Ref. PDB, FRUP02	1		460–3000		
52	striker plate S-RS	Ref. PDB, TRSK					
on request							
53	striker snapper AF A0767	TRST0100- ...	1		1601–3000		

Hinge side turning points					
Pos.	**Description**	**Part number**		**required as per sash weight**	
		surface TS	RAL7037	130 kg	150 kg
54	corner hinge AX	Ref. PDB, TBEB41		1	1
55	cover cap AX EL	Ref. PDB, TKEL41		1	1
56	bottom hinge AX	Ref. PDB, TBEV41		1	1

List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+





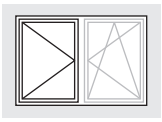
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							25
1	corn.drive VSO 2RS A0055	TEUL4070- ...	1	480 – 1650			1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480 – 680			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681 – 750			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751 – 850			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851 – 1050			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051 – 1250			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251 – 1450			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451 – 1650			1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480 – 680			
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681 – 850			
	stay arm AX sz 4	Ref. PDB, TSAV44		851 – 1050			
	stay arm AX sz 5	Ref. PDB, TSAV45		1051 – 1250			
	stay arm AX sz 4	Ref. PDB, TSAV44		1251 – 1450			
	stay arm AX sz 5	Ref. PDB, TSAV45		1451 – 1650			
4	crt. accessories AX	Ref. PDB, TMZV41	1	480 – 1650			
5	linkage additional stay 1RS	TZOK1010- ...	1	1251 – 1650			1
6	additional stay	Ref. PDB, TSZS	1	1251 – 1650			
7	packer Z	Ref. PDB, FRUP01	1	1251 – 1650			
8	tilt restr. additional stay ..	889008	1	1251 – 1650			
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681 – 1050	460 – 900		
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051 – 1250	460 – 900		
10a	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480 – 1650	460 – 800		1
10b	corn.drive AF VSU/K 56+ 1S 2RS	TEUL5040- ...	1	480 – 1650	801 – 3000		1
11	run up block AF 13 mm 13	TFFH0080- ...	1	480 – 1650			
12	extension sz 1+ 1RS	TVSO0200- ...	1	480 – 500			1
	extension sz 2+ 1RS	TVSL0320- ...		501 – 680			1
	extension sz 3+ 1RS	TVSL0330- ...		681 – 850			1
	extension sz 2+ 1RS	TVSL0320- ...		851 – 1050			1
	extension sz 2+ 1RS	TVSL0320- ...		1051 – 1250			1
	extension sz 4+ 1RS	TVSL0340- ...		1251 – 1450			1
	extension sz 6+ 1RS	TVSL0360- ...		1451 – 1650			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1650			1
14	gear 15 AF sz 20	TGMK4010- ...	1		460 – 600	230 – 300	
	gear 15 AF sz 60	TGMK4020- ...			601 – 700	300 – 350	
	gear 15 AF sz 70 1RS	TGMK4030- ...			701 – 800	350 – 400	
	gear 15 AF sz 80 1RS	TGMK4040- ...			801 – 1200	400 – 600	
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201 – 1600	600 – 800	
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601 – 2000	800 – 1000	
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001 – 3000	1000 – 1500	
15	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401 – 2800		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000		
16	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460 – 3000		
17	anti-drill guard E	TGBS0010- ...	1		460 – 3000		
18a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460 – 800		1
18b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000		2
19	extension sz 2+ 1RS	TVSL0320- ...	1		501 – 600		1
	extension sz 3+ 1RS	TVSL0330- ...			601 – 800		1
	extension sz 2+ 1RS	TVSL0320- ...			801 – 1000		1
	extension sz 4+ 1RS	TVSL0340- ...			1001 – 1400		1
	extension sz 2+ 1RS	TVSL0320- ...			1401 – 1600		1
	extension sz 2+ 1RS	TVSL0320- ...			1801 – 2000		1
	extension sz 4+ 1RS	TVSL0340- ...			2001 – 2200		1
	extension sz 6+ 1RS	TVSL0360- ...			2201 – 2400		1
	extension sz 5+ 1RS	TVSL0350- ...			2401 – 3000		1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601 – 3000		1
21	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2801 – 3000		1
22	anti-lift device	Ref. PDB, TFAH	1		460 – 3000		
23	Air gap limiter	Ref. PDB, FRFL	1		460 – 3000		

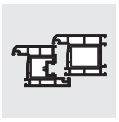
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							25
24	packer RB/FPS	Ref. PDB, FRUP02	1		460 – 3000		
25	striker plate S-RS	Ref. PDB, TRSK					
on request							
26	mishandling device	TFBS0010- ...	1				
27	pressure piece	Ref. PDB, TFFD	1				
28	snapper rh.	TFST0021- ...	1		1601 – 3000		
	snapper lh.	TFST0022- ...			1601 – 3000		

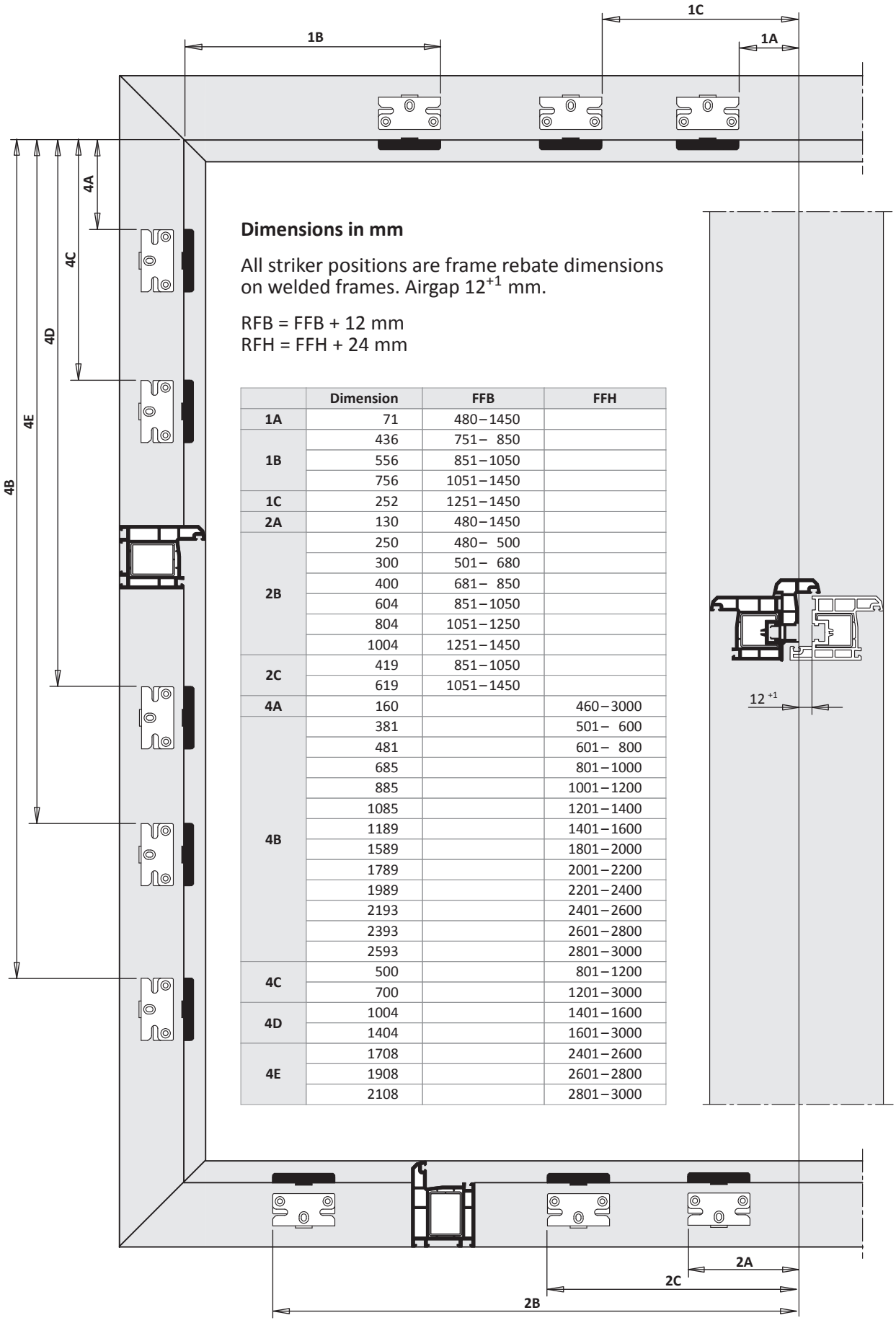
Hinge side turning points					
Pos.	**Description**	**Part number**		**required as per sash weight**	
		surface TS	RAL7037	130 kg	150 kg
29	corner hinge AX	Ref. PDB, TBEB41		1	1
30	cover cap AX EL	Ref. PDB, TKEL41		1	1
31	bottom hinge AX	Ref. PDB, TBEV41		1	1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+





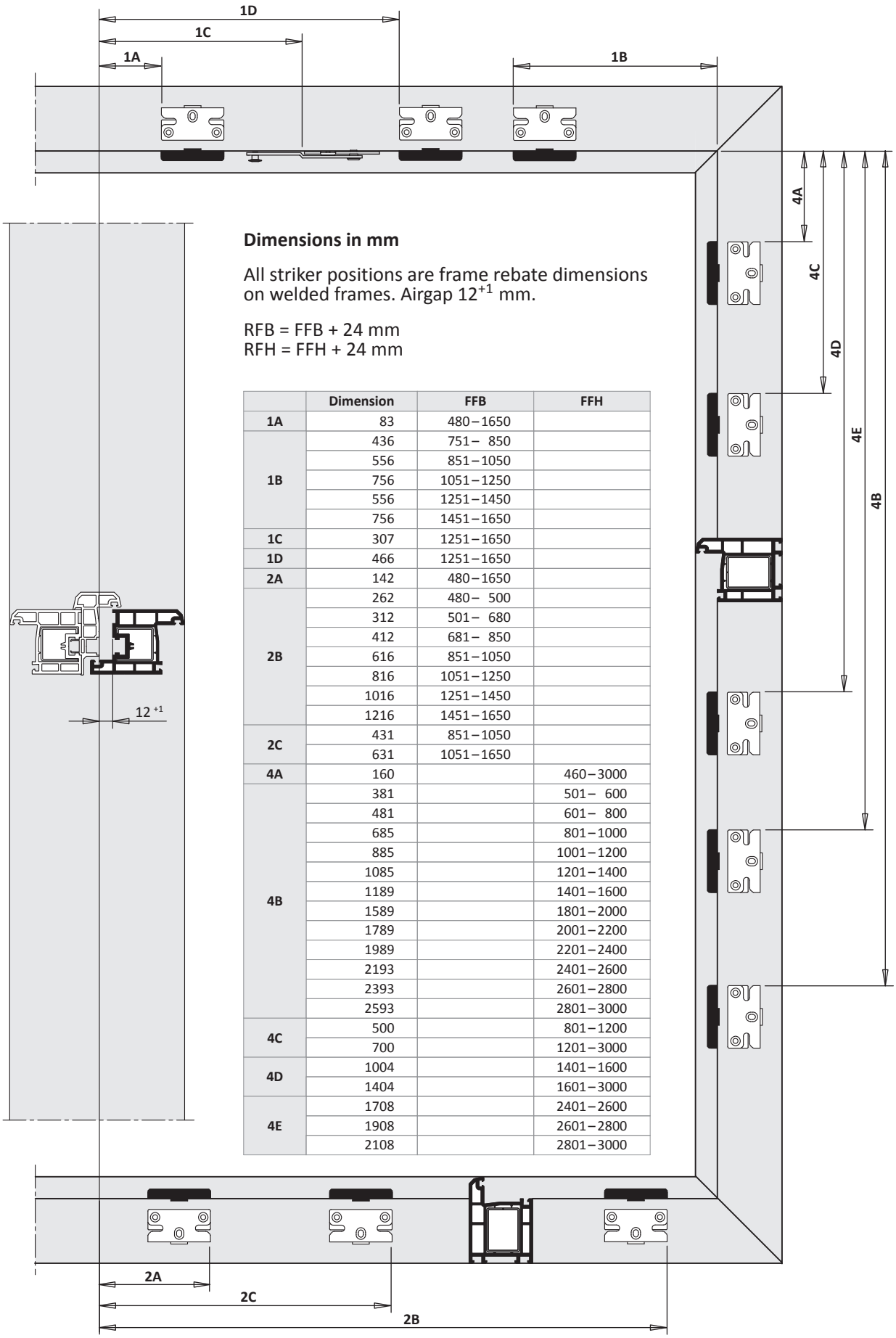


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	480–1450	
1B	436	751– 850	
	556	851–1050	
	756	1051–1450	
1C	252	1251–1450	
2A	130	480–1450	
2B	250	480– 500	
	300	501– 680	
	400	681– 850	
	604	851–1050	
	804	1051–1250	
	1004	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		460–3000
4B	381		501– 600
	481		601– 800
	685		801–1000
	885		1001–1200
	1085		1201–1400
	1189		1401–1600
	1589		1801–2000
	1789		2001–2200
	1989		2201–2400
	2193		2401–2600
	2393		2601–2800
	2593		2801–3000
4C	500		801–1200
	700		1201–3000
4D	1004		1401–1600
	1404		1601–3000
4E	1708		2401–2600
	1908		2601–2800
	2108		2801–3000



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	436	751– 850	
	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	480–1650	
2B	262	480– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1216	1451–1650	
2C	431	851–1050	
	631	1051–1650	
4A	160		460–3000
4B	381		501– 600
	481		601– 800
	685		801–1000
	885		1001–1200
	1085		1201–1400
	1189		1401–1600
	1589		1801–2000
	1789		2001–2200
	1989		2201–2400
	2193		2401–2600
	2393		2601–2800
	2593		2801–3000
4C	500		801–1200
	700		1201–3000
4D	1004		1401–1600
	1404		1601–3000
4E	1708		2401–2600
	1908		2601–2800
	2108		2801–3000

Bottom inliner

1-sash square tilt-turn H48.TAFKFK2S016EN 8 - 3

2-sash square tilt-turn/turn DS 16 H48.TAFKFK2S017EN 8 - 9

Tilt before turn (TBT)

1-sash square tilt before turn (TBT) H48.TAFKFK2S018EN 8 - 17

Bottom double cam SB R-RS

1-sash square tilt-turn H48.TAFKFK2S403EN 8 - 23

2-sash square tilt-turn/turn DS 16 H48.TAFKFK2S404EN 8 - 29

Locking-points distance 700

1-sash square tilt-turn H48.TAFKFK2S303EN 8 - 37

2-sash square tilt-turn/turn DS 16 H48.TAFKFK2S304EN 8 - 43

TITAN AF

Installation instructions

RC2
ECO

1-sash square tilt-turn

PVC

RC2 ECO

fixed handle position

Hinge side axxent 24+

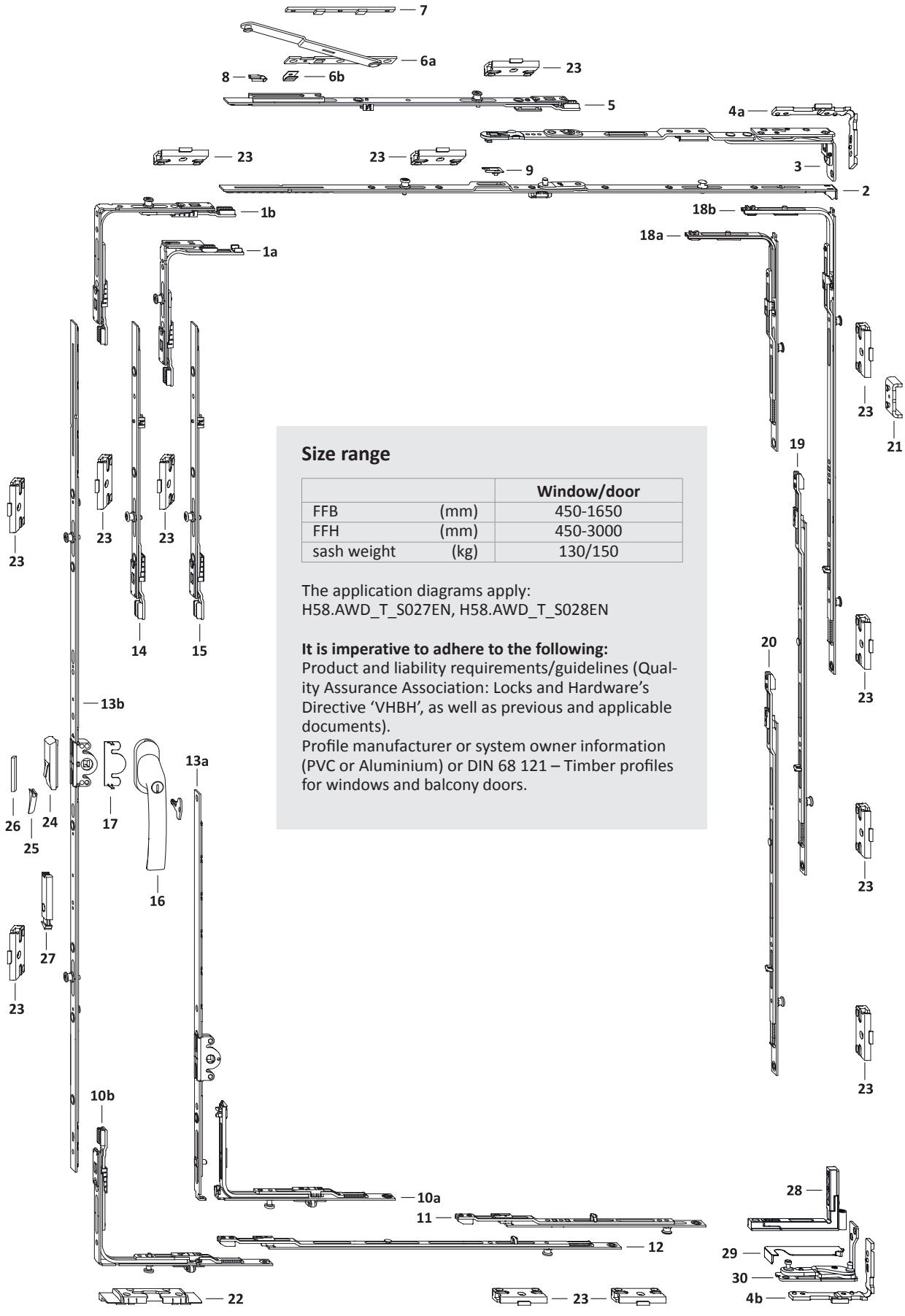
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout

1-sash square tilt-turn
PVC GK Hinge side axxent 24+

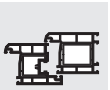


Size range

		Window/door
FFB	(mm)	450-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

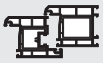
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							22	23
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	450– 480				1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	450– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	450– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	450–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	450– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	450– 900			
10a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	450–1250	450– 600		1	
10b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	450–1650	601–3000		1	
11	extension sz 1+ 1RS	TVSO0200- ...	1	450– 500				1
	extension sz 2+ 1RS	TVSL0320- ...		501– 680				1
	extension sz 3+ 1RS	TVSL0330- ...		681– 850				1
	extension sz 2+ 1RS	TVSL0320- ...		851–1250				1
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450				1
	extension sz 3+ 1RS	TVSL0330- ...		1451–1650				1
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
13a	gear 15 sz 30/G180	TGKK3010- ...	1	450–1250	450– 600	180		
13b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		2
14	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			1
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
15	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
16	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		450–3000			
17	anti-drill guard E	TGBS0010- ...	1		450–3000			
18a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450– 800			1
18b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
21	anti-lift device	Ref. PDB, TFAH	1		450–3000			
22	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
23	striker plate S-RS	Ref. PDB, TRSK						
on request								
24	mishandling device	TFBS0010- ...	1					

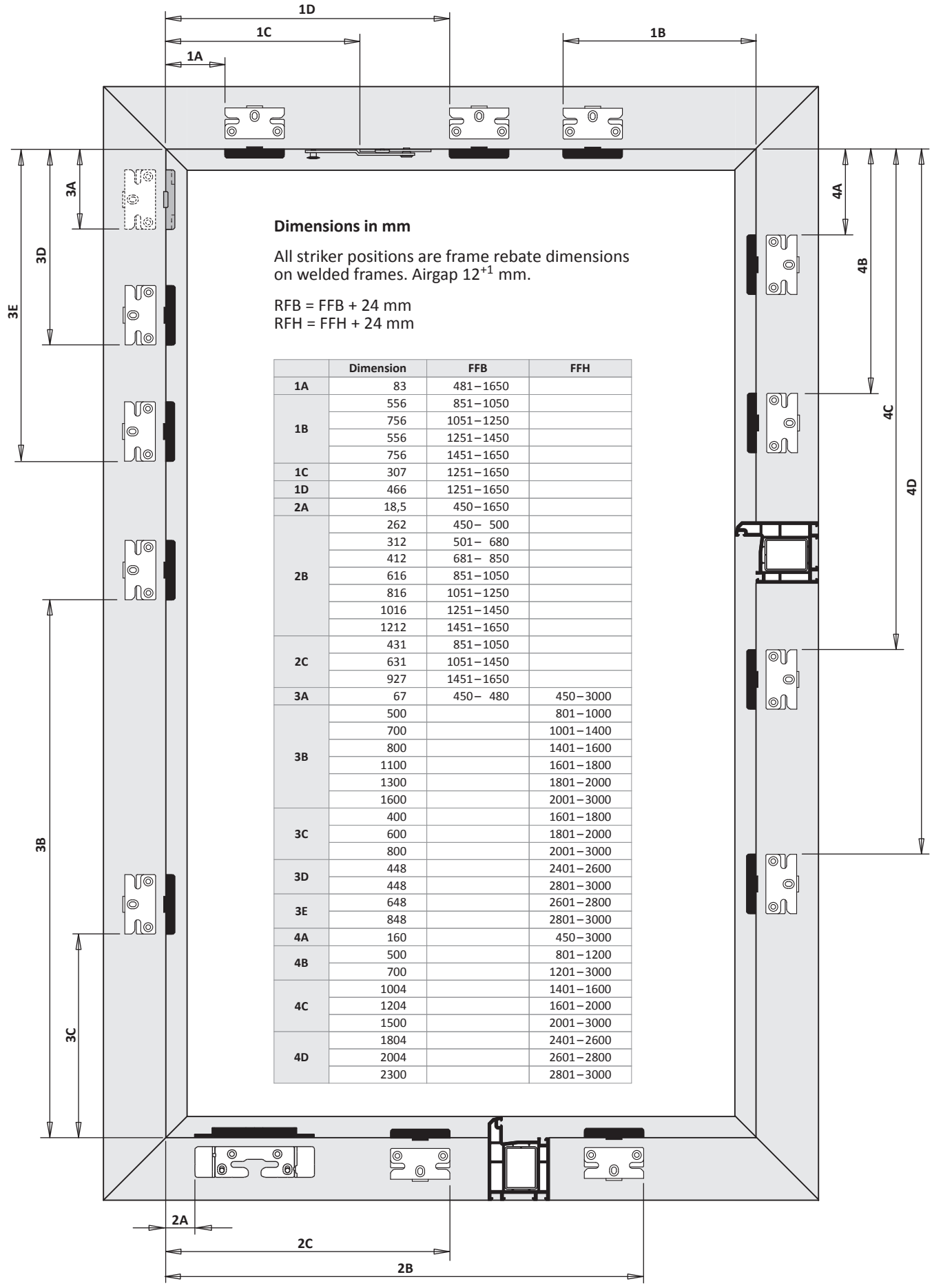
List of fittings

1-sash square tilt-turn
PVC GK Hinge side axxent 24+



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							22	23
25	pressure piece	Ref. PDB, TFFD	1					
26	stop	Ref. PDB, FRZF01	1					
27	snapper rh.	TFST0021- ...	1		1801 – 3000			
	snapper lh.	TFST0022- ...			1801 – 3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
28	corner hinge AX	Ref. PDB, TBEB41		1	1
29	cover cap AX EL	Ref. PDB, TKEL41		1	1
30	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

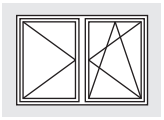
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

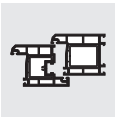
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	450–1650	
2B	262	450– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1212	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	450– 480	450–3000
3B	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3C	400		1601–1800
	600		1801–2000
	800		2001–3000
3D	448		2401–2600
	448		2801–3000
3E	648		2601–2800
	848		2801–3000
4A	160		450–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





RC2
ECO

2-sash square tilt-turn/turn DS 16

PVC

RC2 ECO

fixed handle position

Hinge side axxent 24+

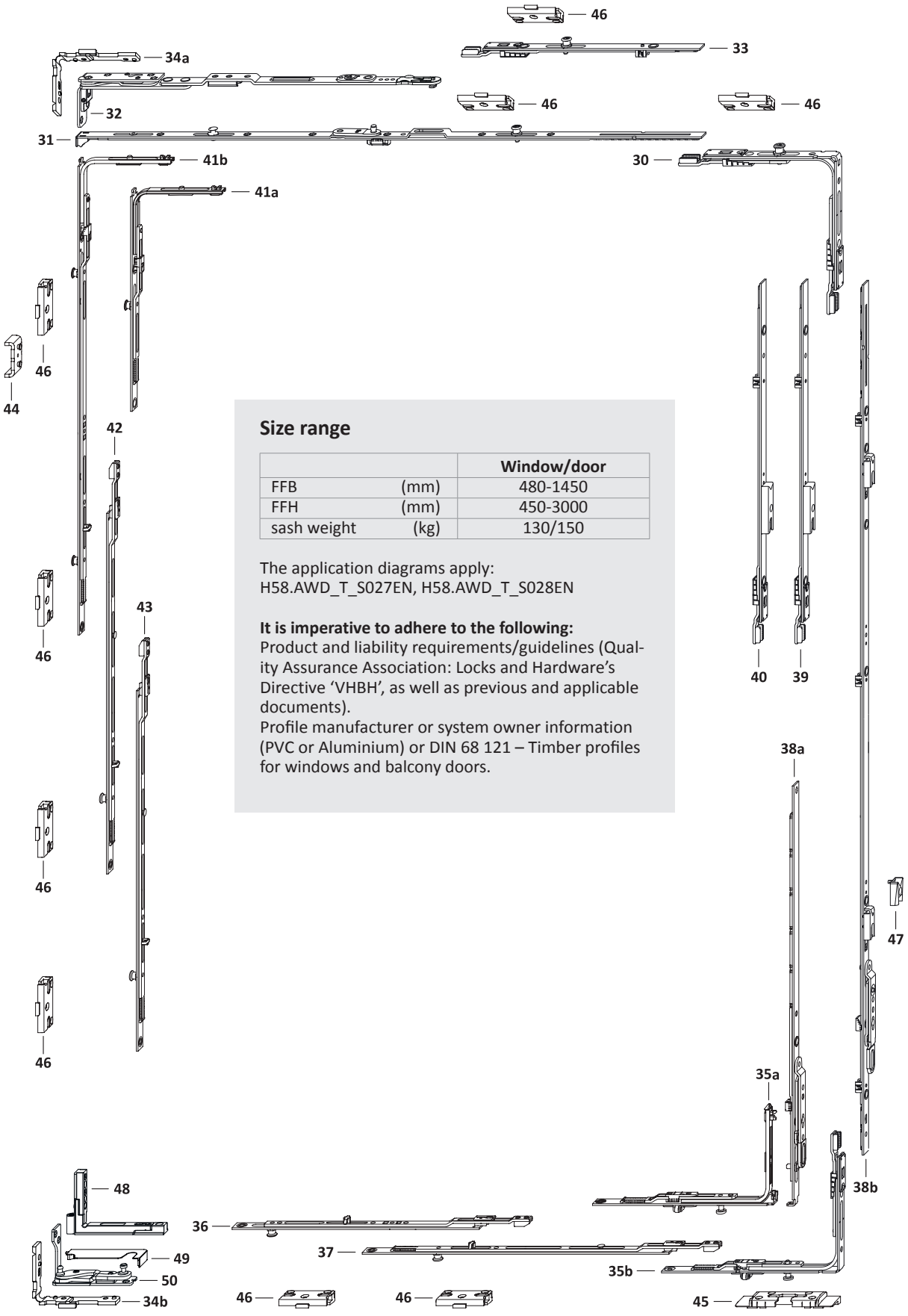
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+

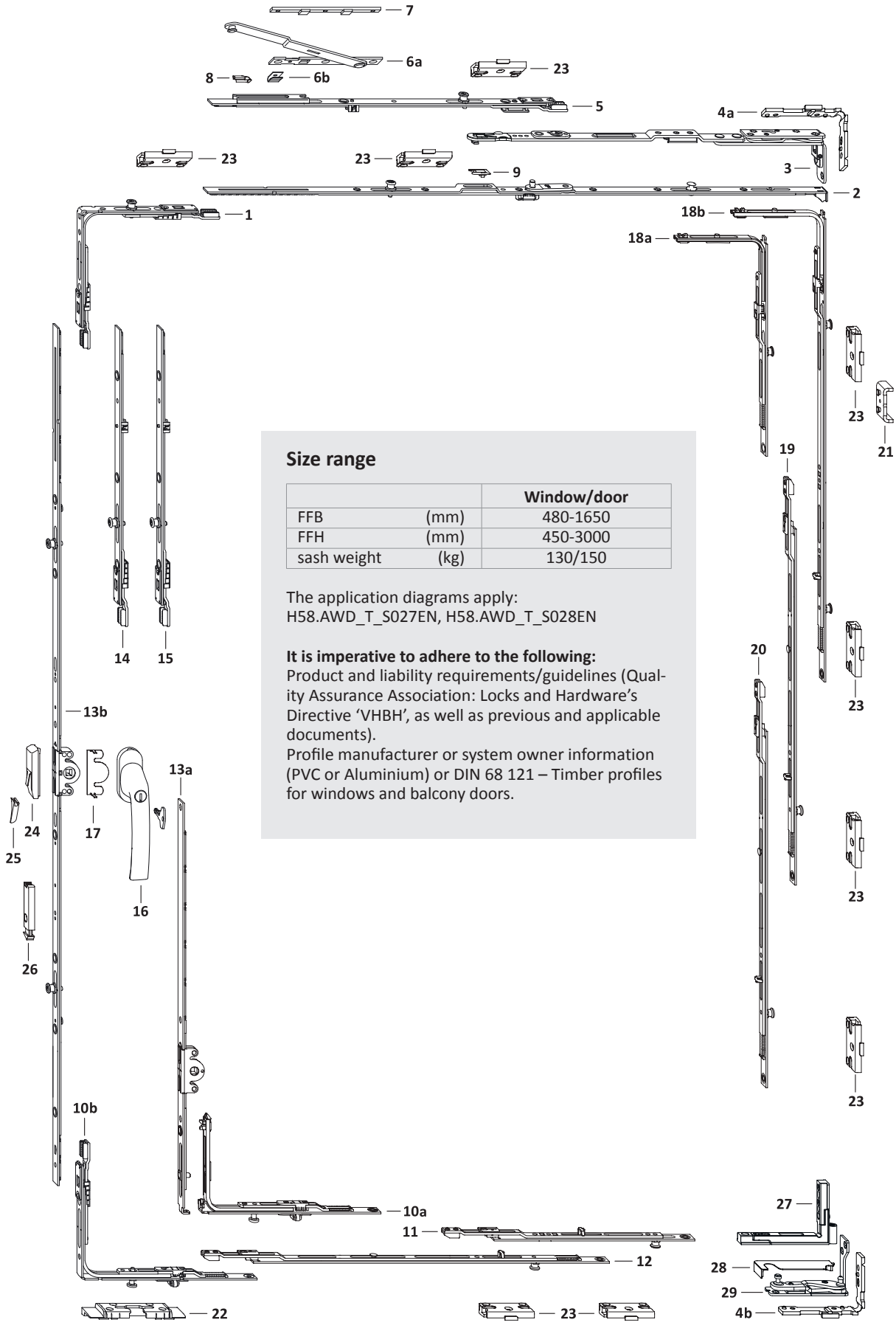


Size range

		Window/door
FFB	(mm)	480-1450
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

		Window/door
FFB	(mm)	480-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

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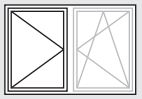
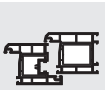
List of fittings slave sash

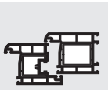
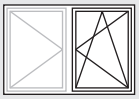
2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	45	46
30	corn.drive VSO 1RS	TEUL4010- ...	1	480–1450				1
31	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1450				1
32	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1450				
33	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450				1
34	crt. accessories AX	Ref. PDB, TMZV41	1	480–1450				
35a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	480–1450	450– 800		1	
35b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	480–1450	801–3000		1	
36	extension sz 1+ 1RS	TVSO0200- ...	1	480– 500				1
	extension sz 2+ 1RS	TVSL0320- ...		501– 680				1
	extension sz 3+ 1RS	TVSL0330- ...		681– 850				1
	extension sz 2+ 1RS	TVSL0320- ...		851–1250				1
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450				1
37	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
38a	sec.sash gear 16 sz 30	TGKS0010- ...	1	480–1250	450– 600	180		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300		
38b	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400		
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500		
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600		
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401–1600	700		
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700		
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000		
	sec.sash gear 16AF200/G10002SB	TGKS4110- ...			2001–3000	1000		
39	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2401–2600			
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
40	linkage AF sz 2 1SB-RS	TZKS1030- ...	1		2601–2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000			
41a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450– 800			1
41b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
42	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
43	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
44	anti-lift device	Ref. PDB, TFAH	1		450–3000			
45	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
46	striker plate S-RS	Ref. PDB, TRSK						
on request								
47	striker snapper AF A0767	TRST0100- ...	1		1801–3000			

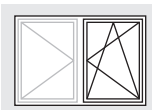
Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
48	corner hinge AX	Ref. PDB, TBEB41		1	1
49	cover cap AX EL	Ref. PDB, TKEL41		1	1
50	bottom hinge AX	Ref. PDB, TBEV41		1	1

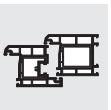



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							22	23
1	corn.drive VSO 1RS	TEUL4010- ...	1	480–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	480–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	450– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	450– 900			
10a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	480–1250	450– 600		1	
10b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	480–1650	601–3000		1	
11	extension sz 1+ 1RS	TVSO0200- ...	1	480– 500				1
	extension sz 2+ 1RS	TVSL0320- ...		501– 680				1
	extension sz 3+ 1RS	TVSL0330- ...		681– 850				1
	extension sz 2+ 1RS	TVSL0320- ...		851–1250				1
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450				1
	extension sz 3+ 1RS	TVSL0330- ...		1451–1650				1
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
13a	gear 15 sz 30/G180	TGKK3010- ...	1	480–1250	450– 600	180		
13b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		
14	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
15	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
16	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		450–3000			
17	anti-drill guard E	TGBS0010- ...	1		450–3000			
18a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450– 800			1
18b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
21	anti-lift device	Ref. PDB, TFAH	1		450–3000			
22	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
23	striker plate S-RS	Ref. PDB, TRSK						
on request								
24	mishandling device	TFBS0010- ...	1		601–3000			
25	pressure piece	Ref. PDB, TFFD	1		601–3000			

List of fittings main sash

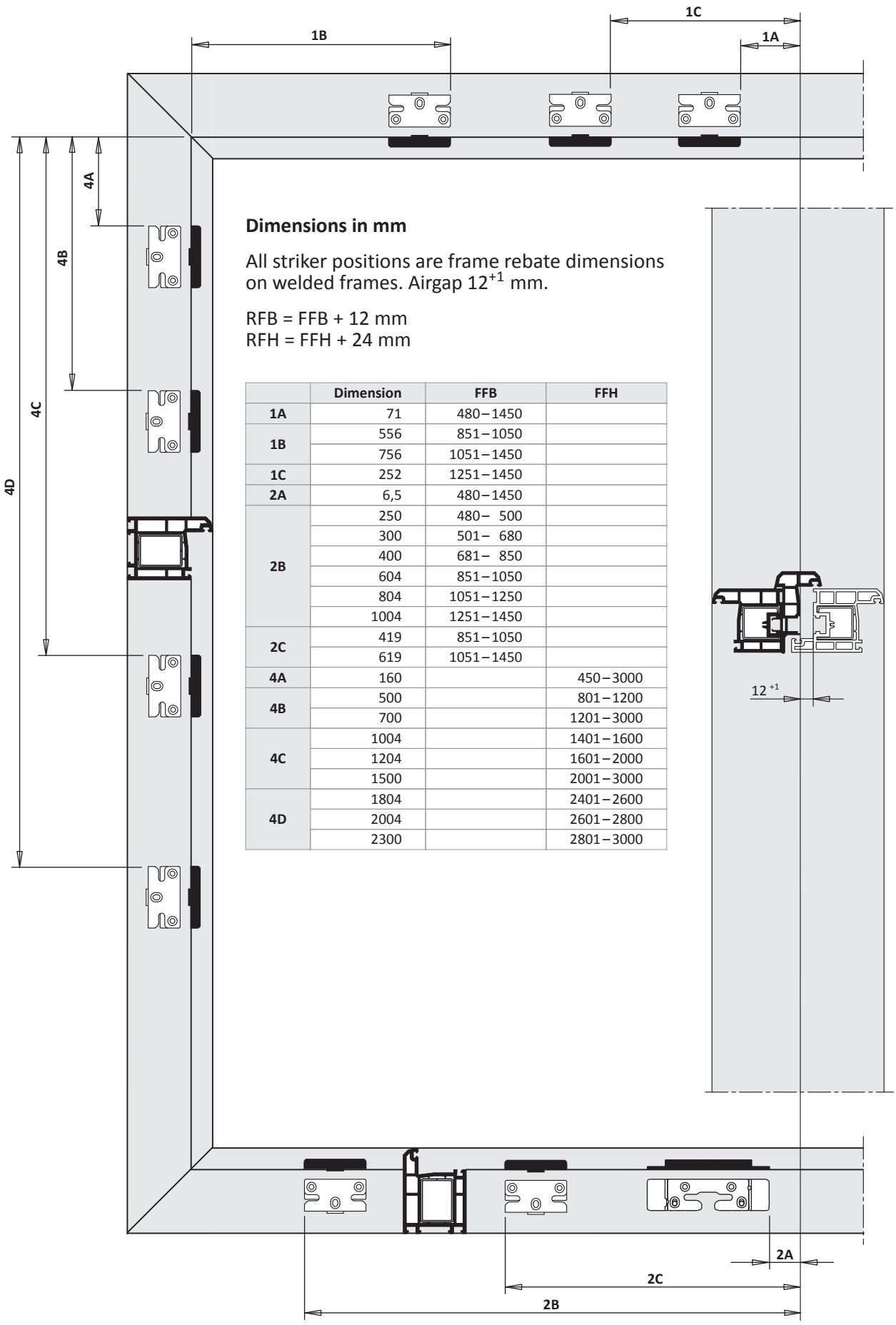
2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							22	23
26	snapper rh.	TFST0021- ...	1		1801 – 3000			
	snapper lh.	TFST0022- ...			1801 – 3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
27	corner hinge AX	Ref. PDB, TBEB41		1	1
28	cover cap AX EL	Ref. PDB, TKEL41		1	1
29	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

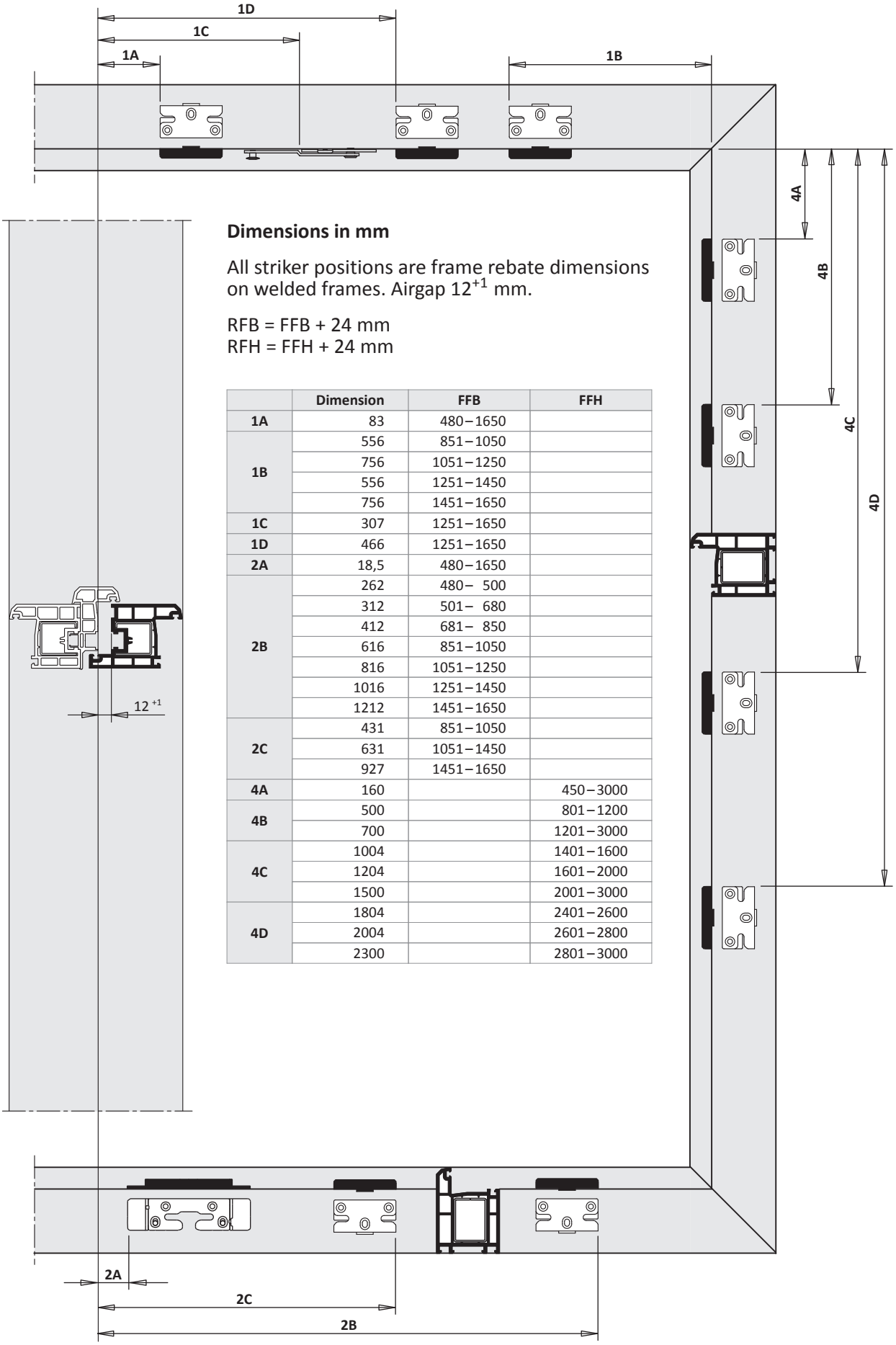
RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	480–1450	
1B	556	851–1050	
	756	1051–1450	
1C	252	1251–1450	
2A	6,5	480–1450	
2B	250	480– 500	
	300	501– 680	
	400	681– 850	
	604	851–1050	
	804	1051–1250	
	1004	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		450–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

8

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	480–1650	
2B	262	480– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1212	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		450–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

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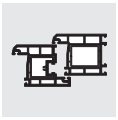
Installation instructions



RC2
ECO

1-sash square tilt before turn (TBT)

PVC

RC2 ECO

fixed handle position

Hinge side axxent 24+

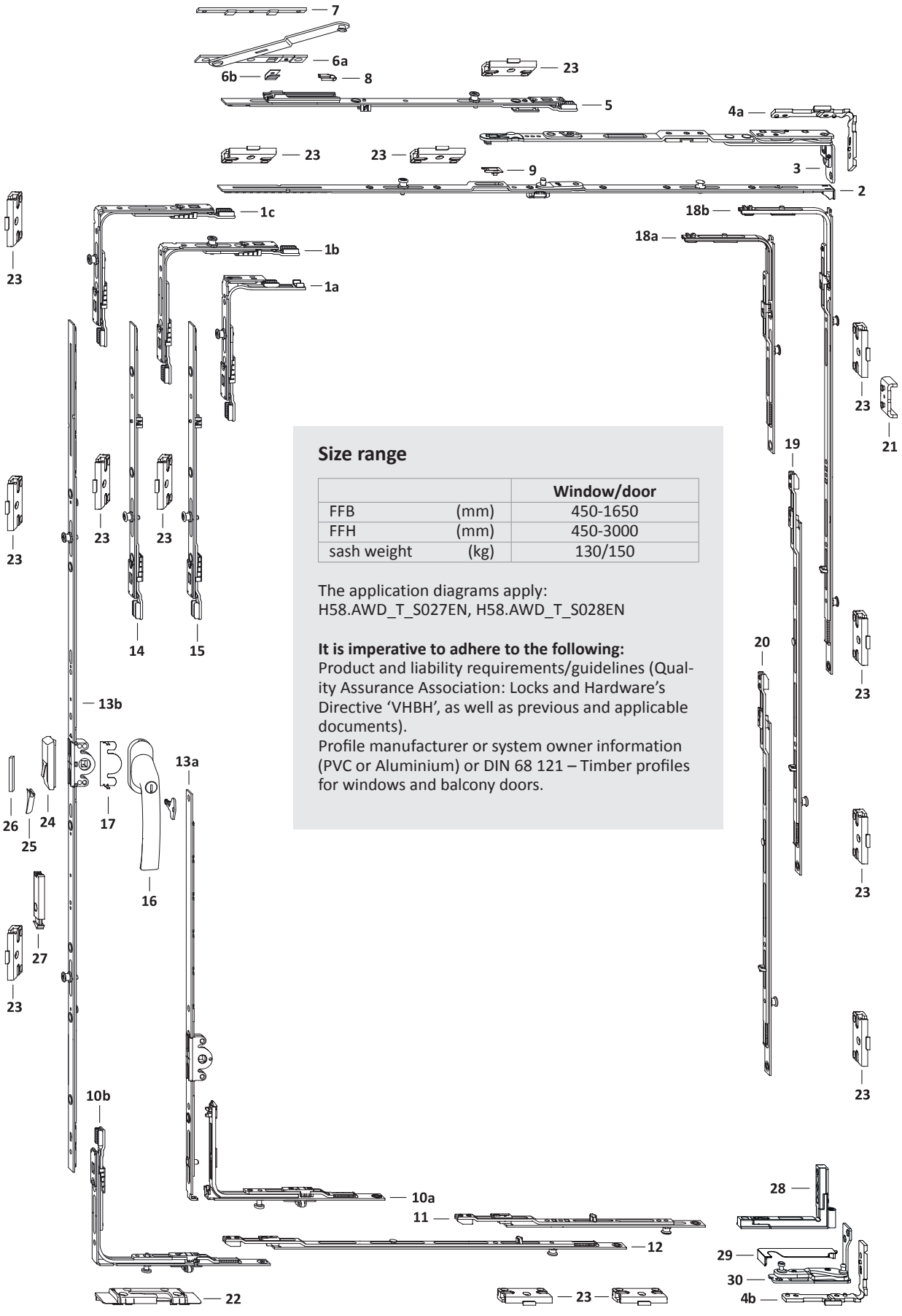
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout

1-sash square tilt before turn (TBT)
PVC GK Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	450-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

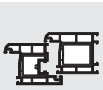
The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							22	23
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	450– 480				1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1250				1
1c	corn.drive VSO 1RS	TEUL4010- ...	1	1251–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	450– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX TBT sz 1	Ref. PDB, TSAV51	1	450– 680				
	stay arm AX TBT sz 2+3	Ref. PDB, TSAV52		681– 850				
	stay arm AX TBT sz 4	Ref. PDB, TSAV54		851–1050				
	stay arm AX TBT sz 5	Ref. PDB, TSAV55		1051–1250				
	stay arm AX TBT sz 4	Ref. PDB, TSAV54		1251–1450				
	stay arm AX TBT sz 5	Ref. PDB, TSAV55		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	450–1650				
5	linkage add. stay AF TBT RS	TZOT1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	2	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	450– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	450– 900			
10a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	450–1250	450– 600		1	
10b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	450–1650	601–3000		1	
11	extension sz 1+ 1RS	TVSO0200- ...	1	450– 500				1
	extension sz 2+ 1RS	TVSL0320- ...		501– 680				1
	extension sz 3+ 1RS	TVSL0330- ...		681– 850				1
	extension sz 2+ 1RS	TVSL0320- ...		851–1250				1
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450				1
	extension sz 3+ 1RS	TVSL0330- ...		1451–1650				1
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
13a	gear 15 sz 30/G180	TGKK3010- ...	1	450–1250	450– 600	180		
13b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300		
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400		1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500		1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600		1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700		1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700		2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000		2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000		2
14	linkage AF sz 1	TZZS0150- ...	1		2201–2400			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600			1
	linkage AF sz 1	TZZS0150- ...			2601–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
15	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800			1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			1
16	handle Globe TBT lockable	Ref.access. ZHGT	1		450–3000			
17	anti-drill guard E	TGBS0010- ...	1		450–3000			
18a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450– 800			1
18b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
21	anti-lift device	Ref. PDB, TFAH	1		450–3000			
22	tilt lock bear. S-ES FH TBT	Ref. PDB, FRKB						
23	striker plate S-RS	Ref. PDB, TRSK						

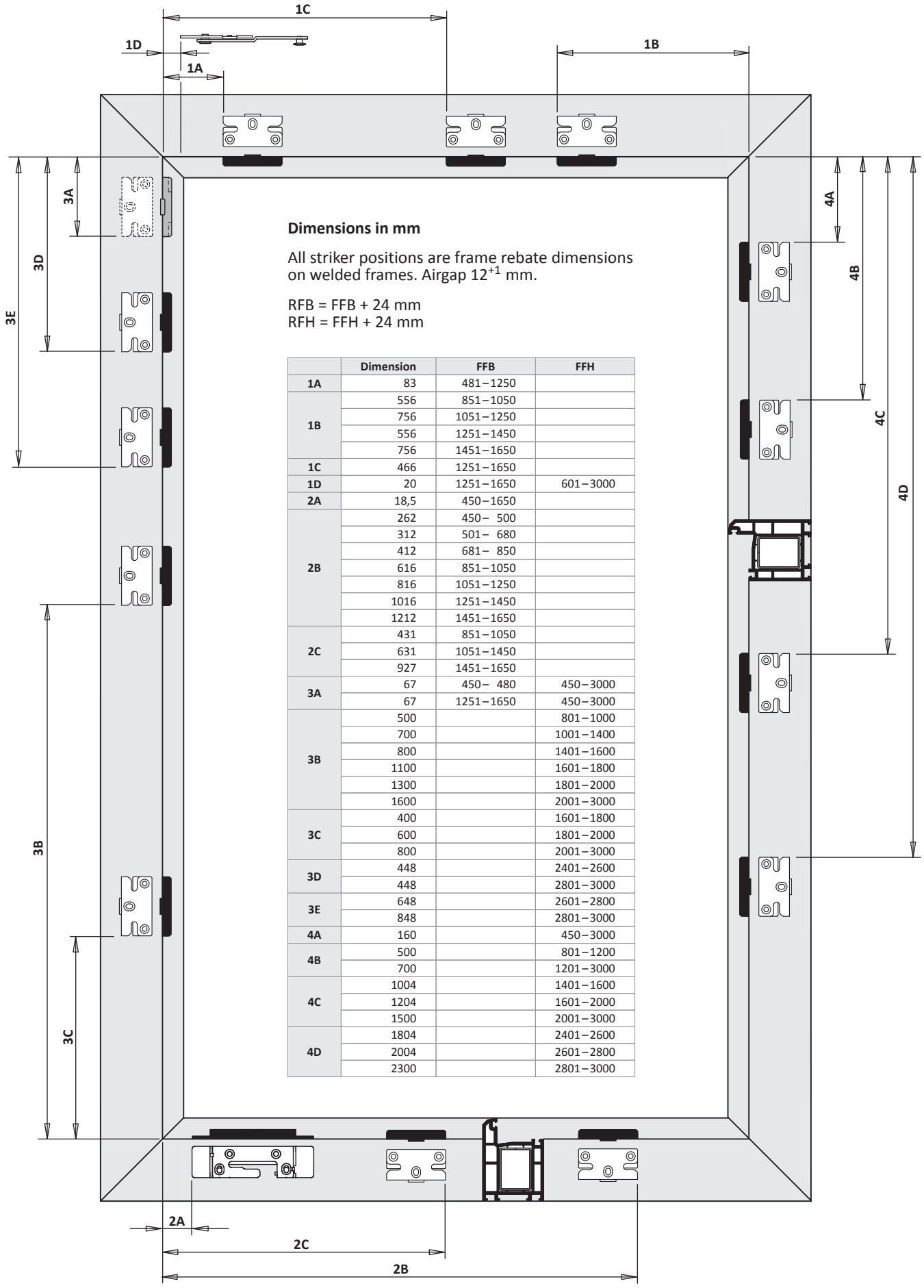
List of fittings

1-sash square tilt before turn (TBT)
PVC GK Hinge side axxent 24+



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							22	23
on request								
24	mishandling device	TFBS0010- ...	1					
25	pressure piece	Ref. PDB, TFFD	1					
26	stop	Ref. PDB, FRZF01	1					
27	snapper rh.	TFST0021- ...	1		1801 – 3000			
	snapper lh.	TFST0022- ...			1801 – 3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
28	corner hinge AX	Ref. PDB, TBEB41		1	1
29	cover cap AX EL	Ref. PDB, TKEL41		1	1
30	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1250	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	466	1251–1650	
1D	20	1251–1650	601–3000
2A	18,5	450–1650	
2B	262	450– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1212	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	450– 480	450–3000
	67	1251–1650	450–3000
3B	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3C	400		1601–1800
	600		1801–2000
	800		2001–3000
3D	448		2401–2600
	448		2801–3000
3E	648		2601–2800
	848		2801–3000
4A	160		450–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

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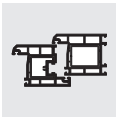
Installation instructions



RC2
ECO

1-sash square tilt-turn

PVC

RC2 ECO

fixed handle position

Hinge side axxent 24+

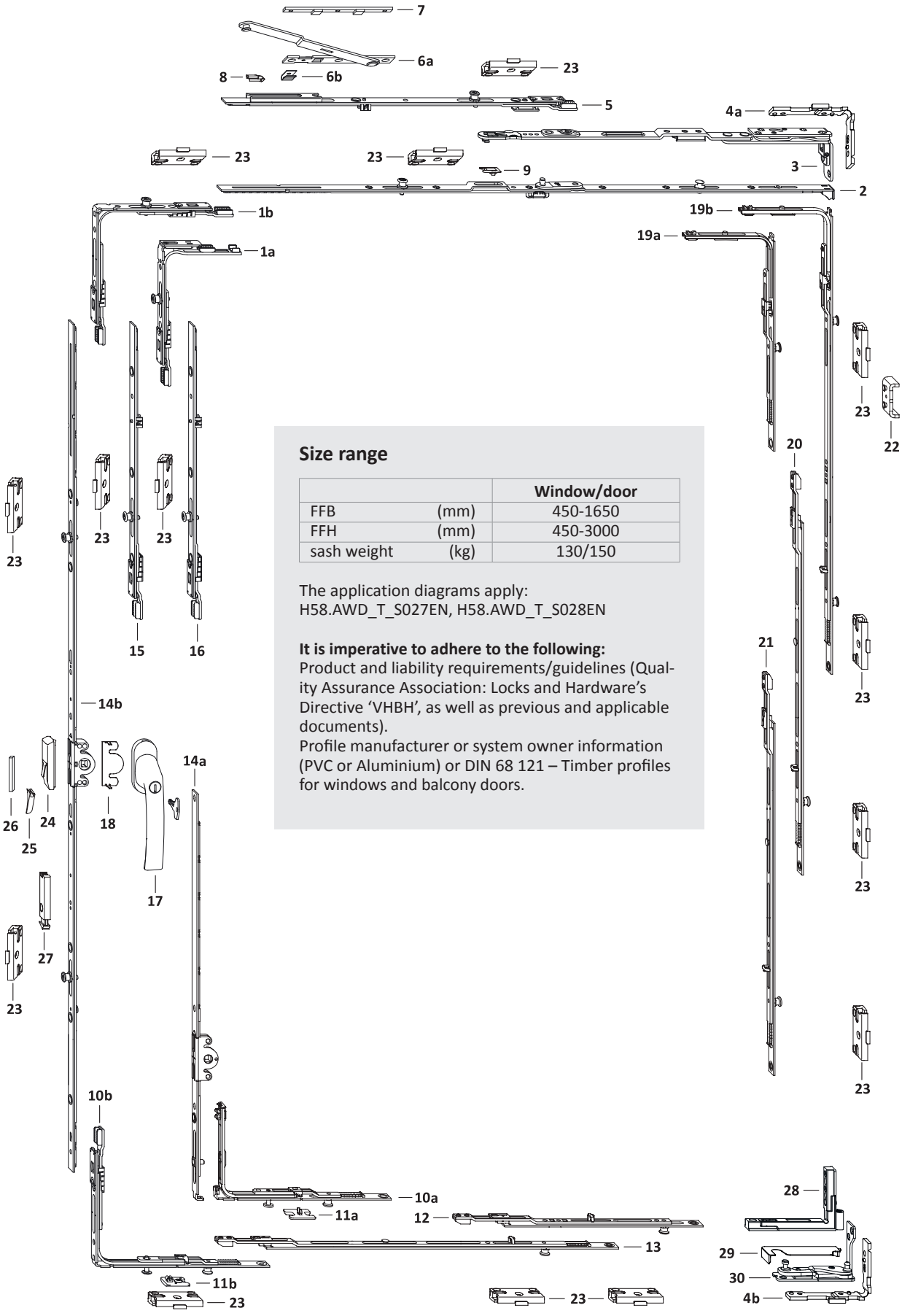
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout

1-sash square tilt-turn
PVC GK Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	450-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
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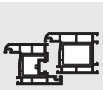
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							23
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	450– 480			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1650			1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	450– 680			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850			
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650			1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	450– 680			
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850			
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050			
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250			
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450			
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650			
4	crt. accessories AX	Ref. PDB, TMZV41	1	450–1650			
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650			1
6	additional stay	Ref. PDB, TSZS	1	1251–1650			
7	packer Z	Ref. PDB, FRUP01	1	1251–1650			
8	tilt restr. additional stay ..	889008	1	1251–1650			
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	450– 900		
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	450– 900		
10a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	450–1250	450– 600		1
10b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	450–1650	601–3000		1
11a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	450–1250	450– 600		
11b	run up block AF 13 mm 13	TFFH0080- ...	1	450–1650	601–3000		
12	extension sz 1+ 1RS	TVSO0200- ...	1	450– 500			1
	extension sz 2+ 1RS	TVSL0320- ...		501– 680			1
	extension sz 3+ 1RS	TVSL0330- ...		681– 850			1
	extension sz 2+ 1RS	TVSL0320- ...		851–1250			1
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450			1
	extension sz 3+ 1RS	TVSL0330- ...		1451–1650			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650			1
14a	gear 15 sz 30/G180	TGKK3010- ...	1	450–1250	450– 600	180	
14b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 800	300	
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400	1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500	1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600	1
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401–1600	700	1
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700	2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000	2
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001–3000	1000	2
15	linkage AF sz 1	TZZS0150- ...	1		2201–2400		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401–2600		1
	linkage AF sz 1	TZZS0150- ...			2601–2800		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000		1
16	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601–2800		1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000		1
17	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		450–3000		
18	anti-drill guard E	TGBS0010- ...	1		450–3000		
19a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450– 800		1
19b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000		1
21	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000		1
22	anti-lift device	Ref. PDB, TFAH	1		450–3000		
23	striker plate S-RS	Ref. PDB, TRSK					

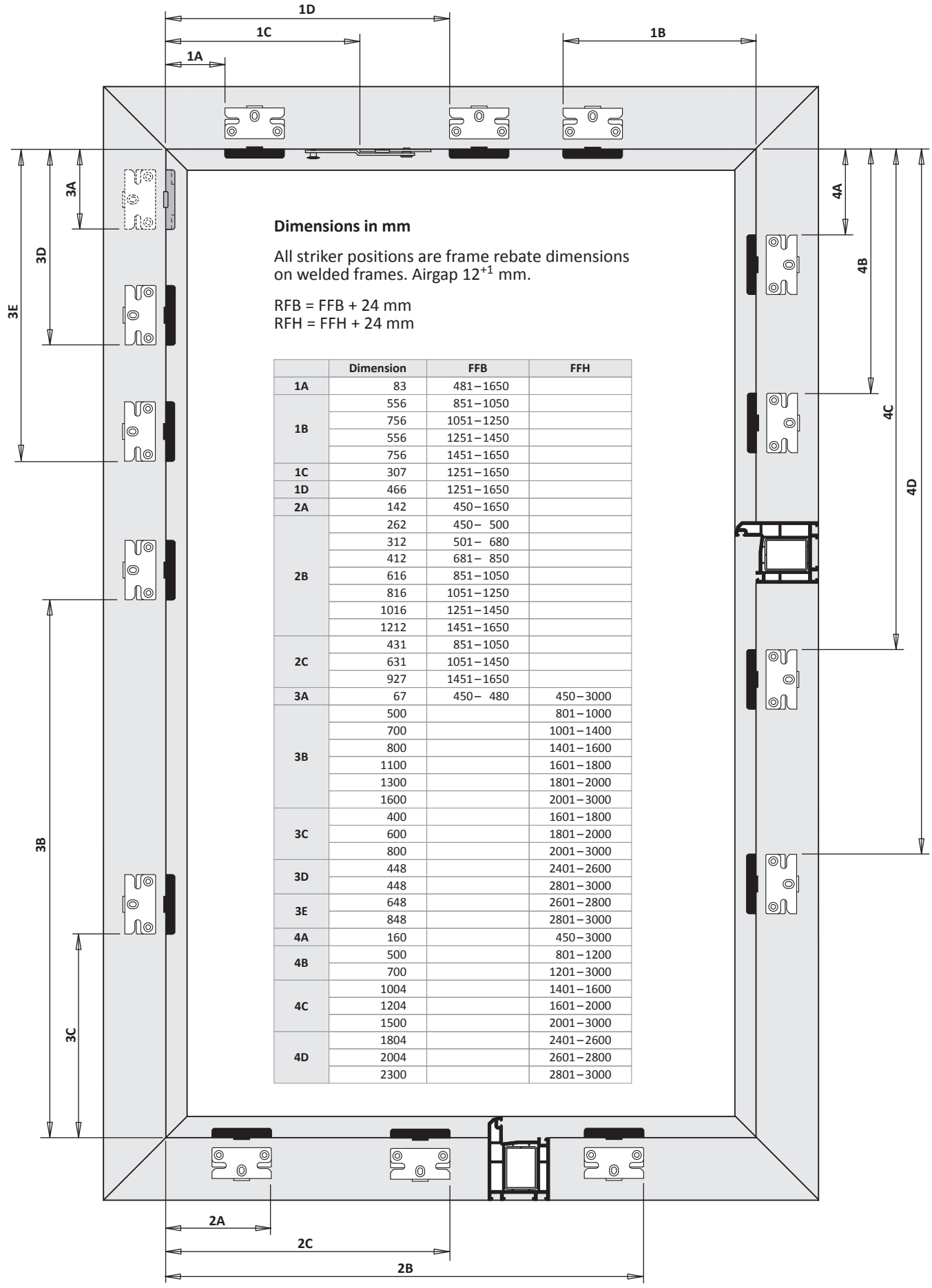
List of fittings

1-sash square tilt-turn
PVC GK Hinge side axxent 24+



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							23
on request							
24	mishandling device	TFBS0010- ...	1				
25	pressure piece	Ref. PDB, TFFD	1				
26	stop	Ref. PDB, FRZF01	1				
27	snapper rh.	TFST0021- ...	1		1801 – 3000		
	snapper lh.	TFST0022- ...			1801 – 3000		

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
28	corner hinge AX	Ref. PDB, TBEB41		1	1
29	cover cap AX EL	Ref. PDB, TKEL41		1	1
30	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

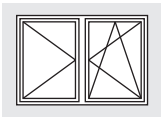
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

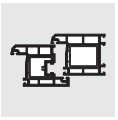
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	450–1650	
2B	262	450– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1212	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	450– 480	450–3000
3B	500		801–1000
	700		1001–1400
	800		1401–1600
	1100		1601–1800
	1300		1801–2000
	1600		2001–3000
3C	400		1601–1800
	600		1801–2000
	800		2001–3000
3D	448		2401–2600
	448		2801–3000
3E	648		2601–2800
	848		2801–3000
4A	160		450–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





RC2
ECO

2-sash square tilt-turn/turn DS 16

PVC

RC2 ECO

fixed handle position

Hinge side axxent 24+

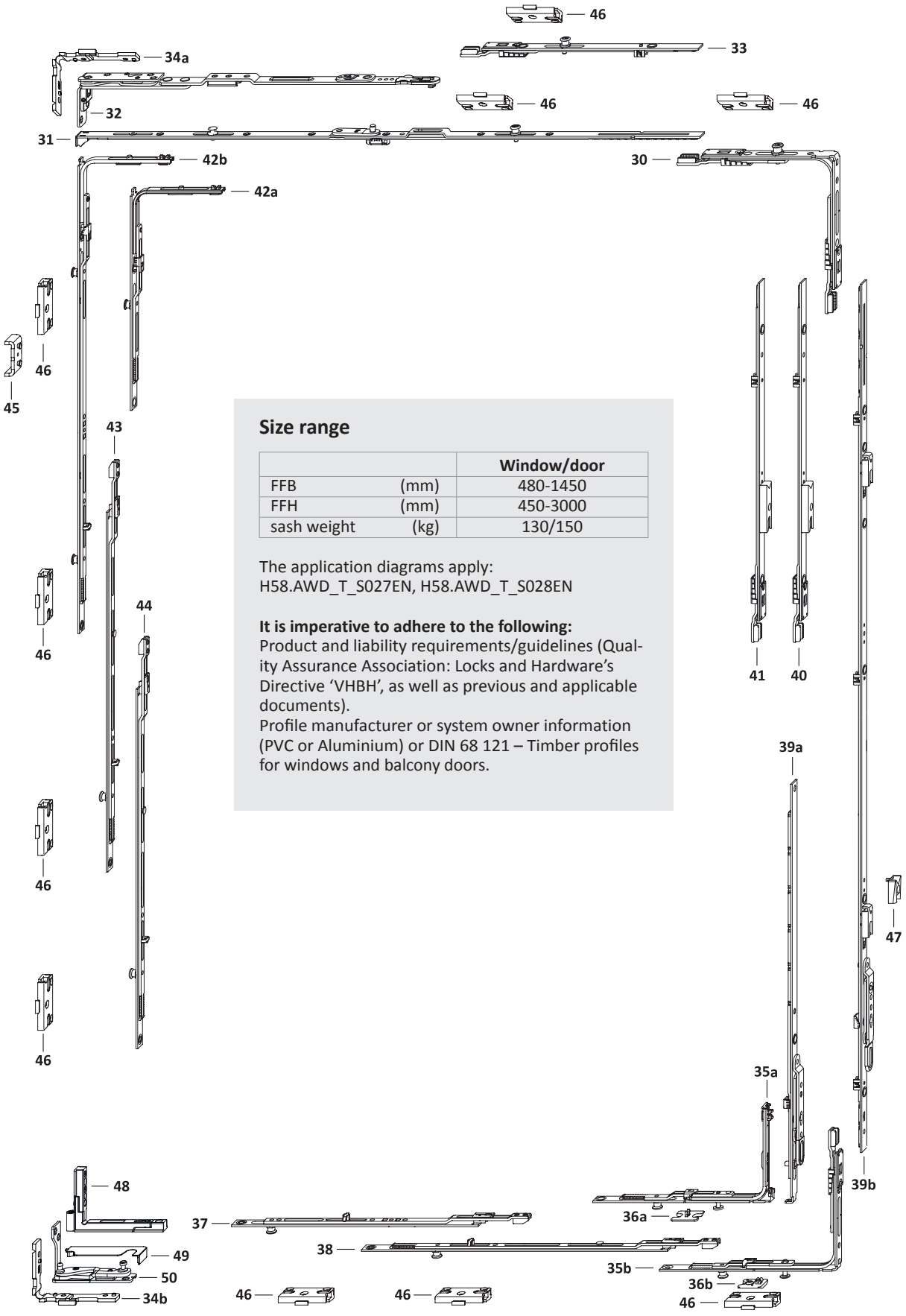
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+

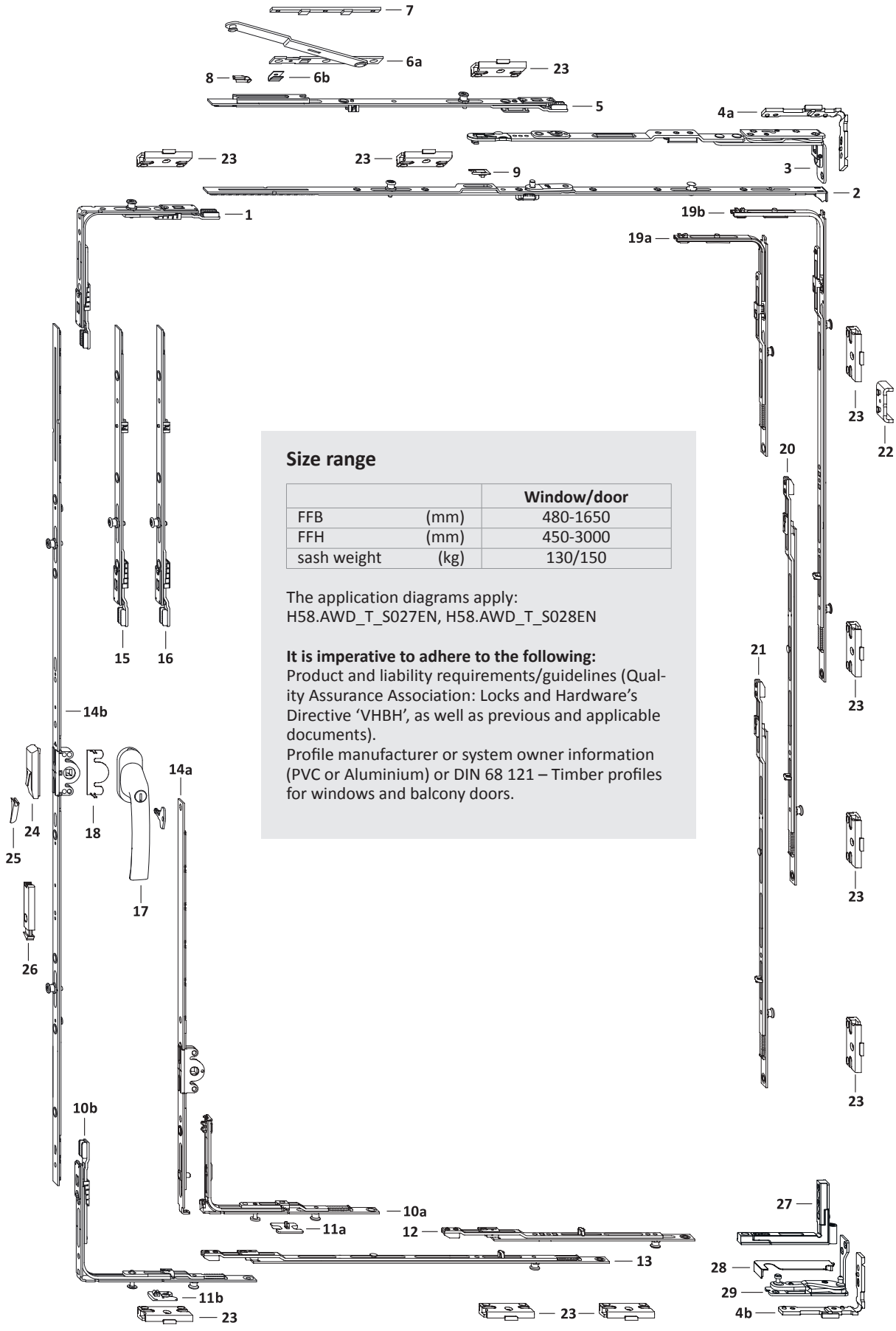


Size range

		Window/door
FFB	(mm)	480-1450
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

		Window/door
FFB	(mm)	480-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

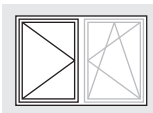
The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

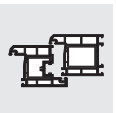
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

8

List of fittings slave sash

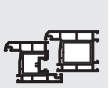
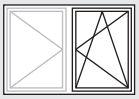
2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
						In the main sash	46
30	corn.drive VSO 1RS	TEUL4010- ...	1	480–1450			1
31	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850			
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1450			1
32	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680			
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850			
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050			
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1450			
33	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450			1
34	crt. accessories AX	Ref. PDB, TMZV41	1	480–1450			
35a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480–1450	450– 800		1
35b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480–1450	801–3000		1
36a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480–1450	450– 800		
36b	run up block AF 13 mm 13	TFFH0080- ...	1	480–1450	801–3000		
37	extension sz 1+ 1RS	TVSO0200- ...	1	480– 500			1
	extension sz 2+ 1RS	TVSL0320- ...		501– 680			1
	extension sz 3+ 1RS	TVSL0330- ...		681– 850			1
	extension sz 2+ 1RS	TVSL0320- ...		851–1250			1
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450			1
38	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450			1
39a	sec.sash gear 16 sz 30	TGKS0010- ...	1	480–1250	450– 600	180	
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 800	300	
39b	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400	
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500	
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600	
	sec.sash gear 16 AF140/G7001SB	TGKS4080- ...			1401–1600	700	
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700	
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000	
	sec.sash gear 16AF200/G10002SB	TGKS4110- ...			2001–3000	1000	
40	linkage AF sz 1	TZZS0150- ...	1		2201–2400		
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2401–2600		
	linkage AF sz 1	TZZS0150- ...			2601–2800		
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000		
41	linkage AF sz 2 1SB-RS	TZKS1030- ...	1		2601–2800		
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000		
42a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450– 800		1
42b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
43	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000		1
44	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000		1
45	anti-lift device	Ref. PDB, TFAH	1		450–3000		
46	striker plate S-RS	Ref. PDB, TRSK					
on request							
47	striker snapper AF A0767	TRST0100- ...	1		1801–3000		

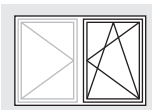
Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
48	corner hinge AX	Ref. PDB, TBEB41		1	1
49	cover cap AX EL	Ref. PDB, TKEL41		1	1
50	bottom hinge AX	Ref. PDB, TBEV41		1	1

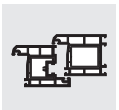



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							23
1	corn.drive VSO 1RS	TEUL4010- ...	1	480 – 1650			1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480 – 680			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681 – 850			
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851 – 1050			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051 – 1250			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251 – 1450			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451 – 1650			1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480 – 680			
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681 – 850			
	stay arm AX sz 4	Ref. PDB, TSAV44		851 – 1050			
	stay arm AX sz 5	Ref. PDB, TSAV45		1051 – 1250			
	stay arm AX sz 4	Ref. PDB, TSAV44		1251 – 1450			
	stay arm AX sz 5	Ref. PDB, TSAV45		1451 – 1650			
4	crt. accessories AX	Ref. PDB, TMZV41	1	480 – 1650			
5	linkage additional stay 1RS	TZOK1010- ...	1	1251 – 1650			1
6	additional stay	Ref. PDB, TSZS	1	1251 – 1650			
7	packer Z	Ref. PDB, FRUP01	1	1251 – 1650			
8	tilt restr. additional stay ..	889008	1	1251 – 1650			
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681 – 1050	450 – 900		
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051 – 1250	450 – 900		
10a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480 – 1250	450 – 600		1
10b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480 – 1650	601 – 3000		1
11a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480 – 1250	450 – 600		
11b	run up block AF 13 mm 13	TFFH0080- ...	1	480 – 1650	601 – 3000		
12	extension sz 1+ 1RS	TVSO0200- ...	1	480 – 500			1
	extension sz 2+ 1RS	TVSL0320- ...		501 – 680			1
	extension sz 3+ 1RS	TVSL0330- ...		681 – 850			1
	extension sz 2+ 1RS	TVSL0320- ...		851 – 1250			1
	extension sz 4+ 1RS	TVSL0340- ...		1251 – 1450			1
	extension sz 3+ 1RS	TVSL0330- ...		1451 – 1650			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451 – 1650			1
14a	gear 15 sz 30/G180	TGKK3010- ...	1	480 – 1250	450 – 600	180	
14b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601 – 800	300	
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801 – 1000	400	
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001 – 1200	500	
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201 – 1400	600	
	gear 15 AF sz 140/G700 1RS	TGKK4080- ...			1401 – 1600	700	
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601 – 1800	700	
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801 – 2000	1000	
	gear 15 AF sz 200/G1000 2RS	TGKK4110- ...			2001 – 3000	1000	
15	linkage AF sz 1	TZZS0150- ...	1		2201 – 2400		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2401 – 2600		
	linkage AF sz 1	TZZS0150- ...			2601 – 2800		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000		
16	linkage KK/AF sz 2 1RS	TZKK1020- ...	1		2601 – 2800		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000		
17	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		450 – 3000		
18	anti-drill guard E	TGBS0010- ...	1		450 – 3000		
19a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450 – 800		1
19b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000		2
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000		1
21	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000		1
22	anti-lift device	Ref. PDB, TFAH	1		450 – 3000		
23	striker plate S-RS	Ref. PDB, TRSK					
on request							
24	mishandling device	TFBS0010- ...	1		601 – 3000		

List of fittings main sash

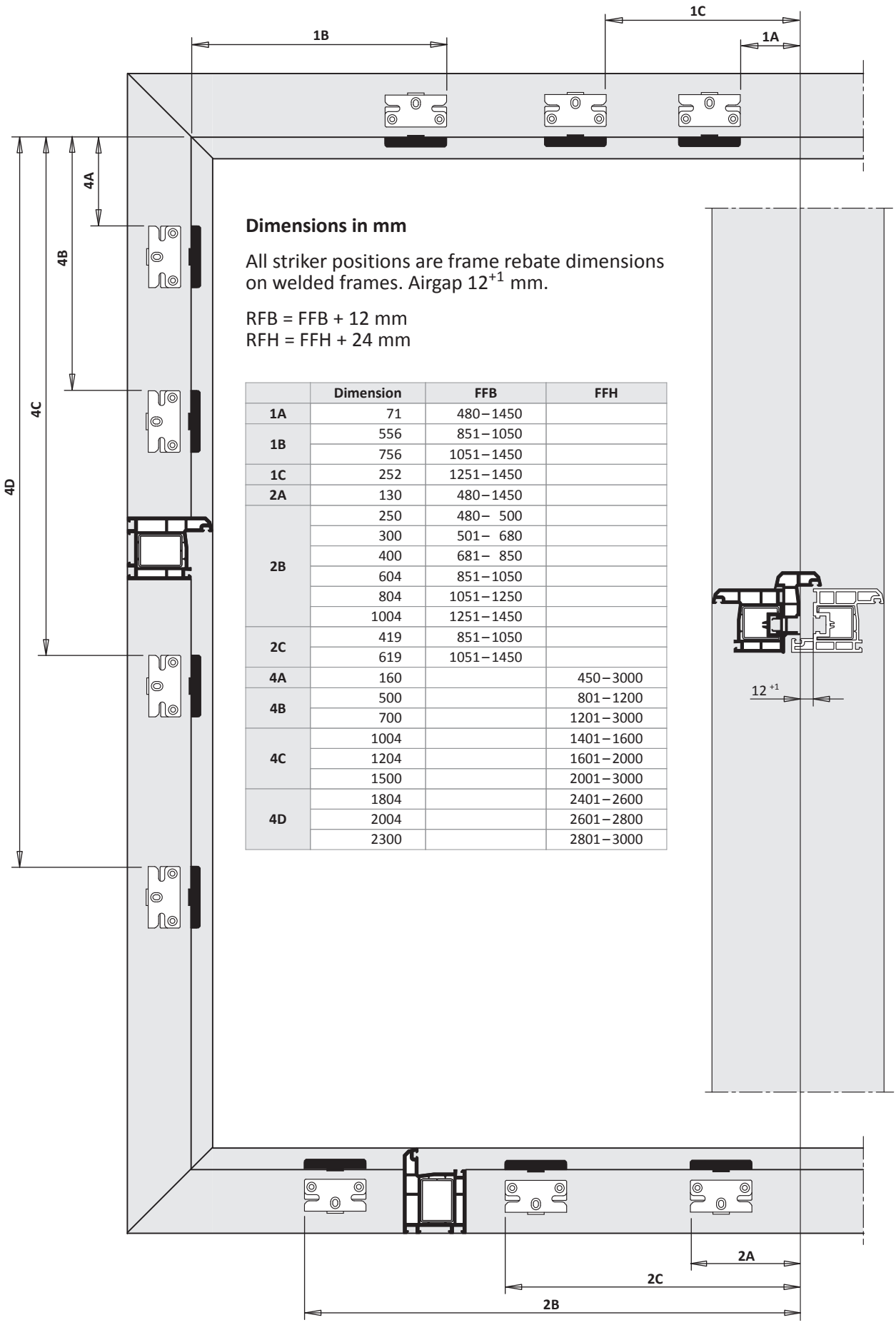
2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							23
25	pressure piece	Ref. PDB, TFFD	1		601 – 3000		
26	snapper rh.	TFST0021- ...	1		1801 – 3000		
	snapper lh.	TFST0022- ...			1801 – 3000		

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
27	corner hinge AX	Ref. PDB, TBEB41		1	1
28	cover cap AX EL	Ref. PDB, TKEL41		1	1
29	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

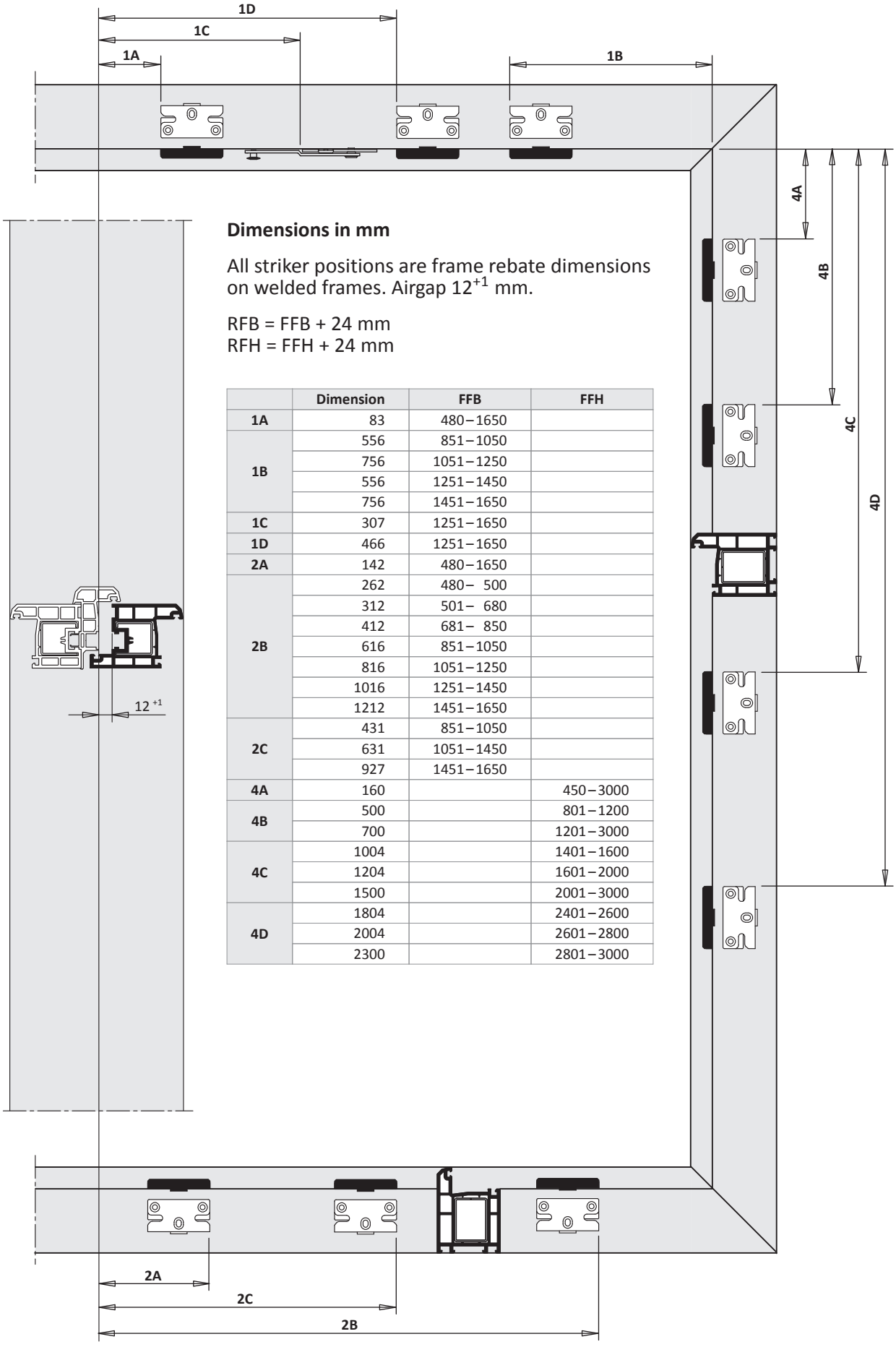
RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	480–1450	
1B	556	851–1050	
	756	1051–1450	
1C	252	1251–1450	
2A	130	480–1450	
2B	250	480– 500	
	300	501– 680	
	400	681– 850	
	604	851–1050	
	804	1051–1250	
	1004	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		450–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

8

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+



Dimensions in mm

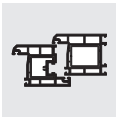
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	480–1650	
2B	262	480– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1212	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		450–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



RC2
ECO

1-sash square tilt-turn

PVC

RC2 ECO

fixed handle position

Hinge side axxent 24+

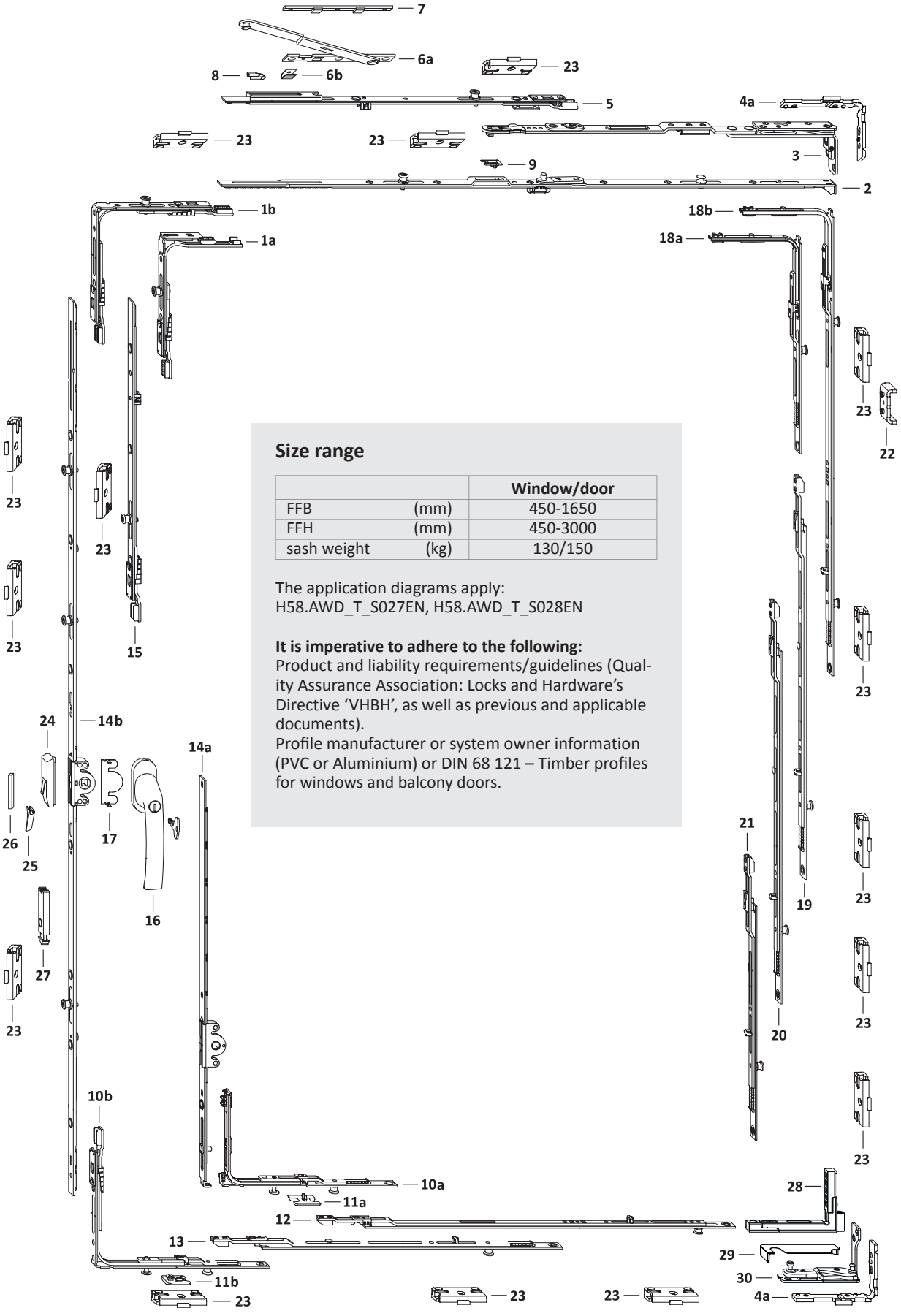
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout

1-sash square tilt-turn
PVC GK Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	450-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

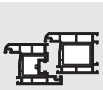
The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							23
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	450– 480			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1650			1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	450– 680			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 750			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751– 850			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650			1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	450– 680			
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850			
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050			
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250			
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450			
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650			
4	crt. accessories AX	Ref. PDB, TMZV41	1	450–1650			
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650			1
6	additional stay	Ref. PDB, TSZS	1	1251–1650			
7	packer Z	Ref. PDB, FRUP01	1	1251–1650			
8	tilt restr. additional stay ..	889008	1	1251–1650			
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	450– 900		
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	450– 900		
10a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	450–1250	450– 600		1
10b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	450–1650	601–3000		1
11a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	450–1250	450– 600		
11b	run up block AF 13 mm 13	TFFH0080- ...	1	450–1650	601–3000		
12	extension sz 1+ 1RS	TVSO0200- ...	1	450– 500			1
	extension sz 2+ 1RS	TVSL0320- ...		501– 680			1
	extension sz 3+ 1RS	TVSL0330- ...		681– 850			1
	extension sz 2+ 1RS	TVSL0320- ...		851–1050			1
	extension sz 2+ 1RS	TVSL0320- ...		1051–1250			1
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450			1
	extension sz 6+ 1RS	TVSL0360- ...		1451–1650			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650			1
14a	gear 15 sz 30/G180	TGKK3010- ...	1	450–1250	450– 600	180	
14b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 700	300	
	gear 15 AF sz 70/G300 1RS	TGKK4040- ...			701– 800	300	1
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400	1
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500	1
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600	1
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401–1600	700	2
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700	2
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000	2
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001–2200	1000	3
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201–3000	1000	3
15	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401–2600		1
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601–2800		1
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801–3000		1
16	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		450–3000		
17	anti-drill guard E	TGBS0010- ...	1		450–3000		
18a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450– 800		1
18b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000		1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000		1
21	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000		1
22	anti-lift device	Ref. PDB, TFAH	1		450–3000		
23	striker plate S-RS	Ref. PDB, TRSK					

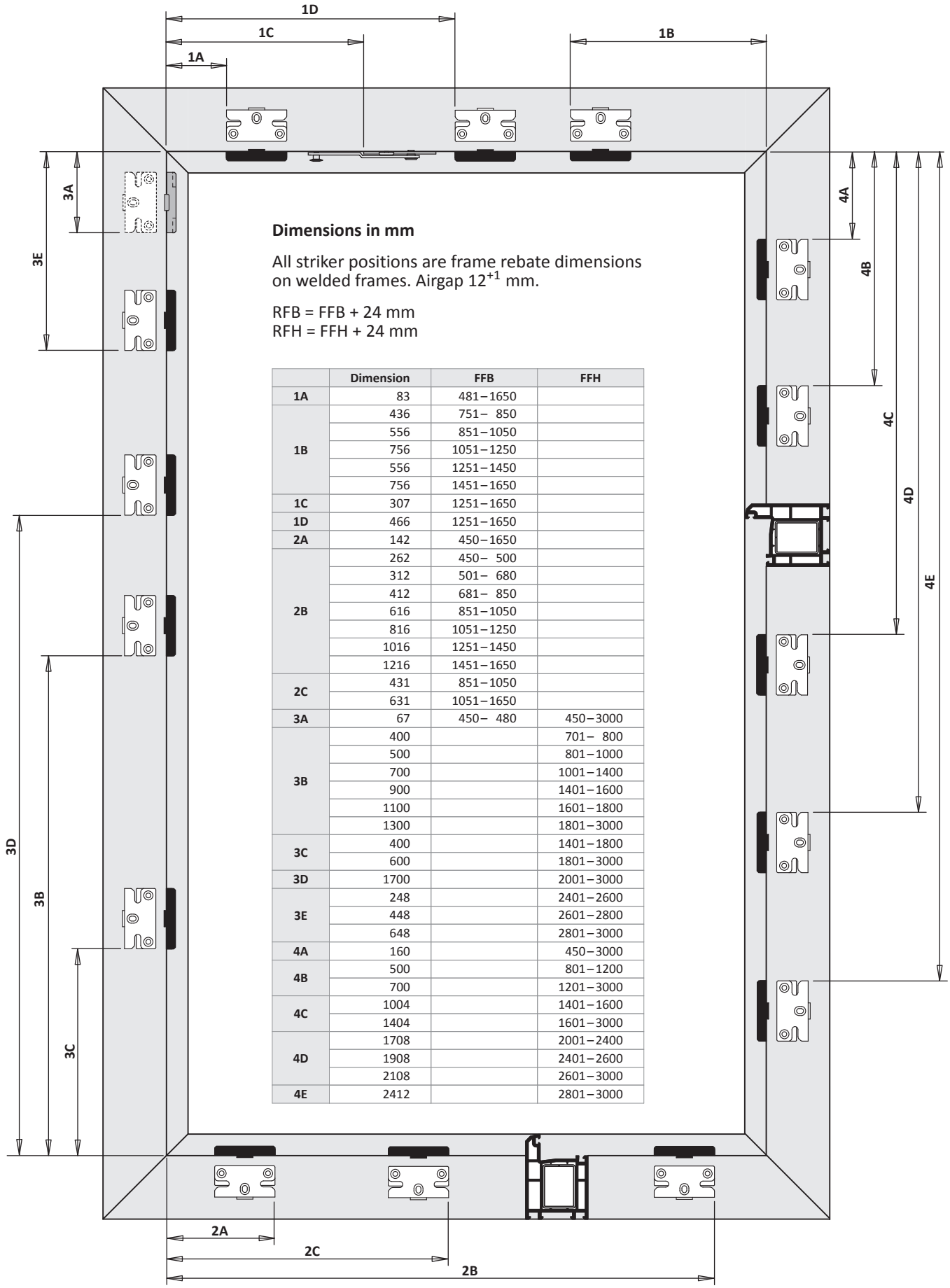
List of fittings

1-sash square tilt-turn
PVC GK Hinge side axxent 24+



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							23
on request							
24	mishandling device	TFBS0010- ...	1				
25	pressure piece	Ref. PDB, TFFD	1				
26	stop	Ref. PDB, FRZF01	1				
27	snapper rh.	TFST0021- ...	1		1801–3000		
	snapper lh.	TFST0022- ...			1801–3000		

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
28	corner hinge AX	Ref. PDB, TBEB41		1	1
29	cover cap AX EL	Ref. PDB, TKEL41		1	1
30	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

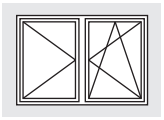
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

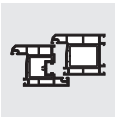
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	436	751– 850	
	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	450–1650	
2B	262	450– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1216	1451–1650	
2C	431	851–1050	
	631	1051–1650	
3A	67	450– 480	450–3000
3B	400		701– 800
	500		801–1000
	700		1001–1400
	900		1401–1600
	1100		1601–1800
	1300		1801–3000
3C	400		1401–1800
	600		1801–3000
3D	1700		2001–3000
3E	248		2401–2600
	448		2601–2800
	648		2801–3000
4A	160		450–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

TITAN AF

Installation instructions





RC2
ECO

2-sash square tilt-turn/turn DS 16

PVC

RC2 ECO

fixed handle position

Hinge side axxent 24+

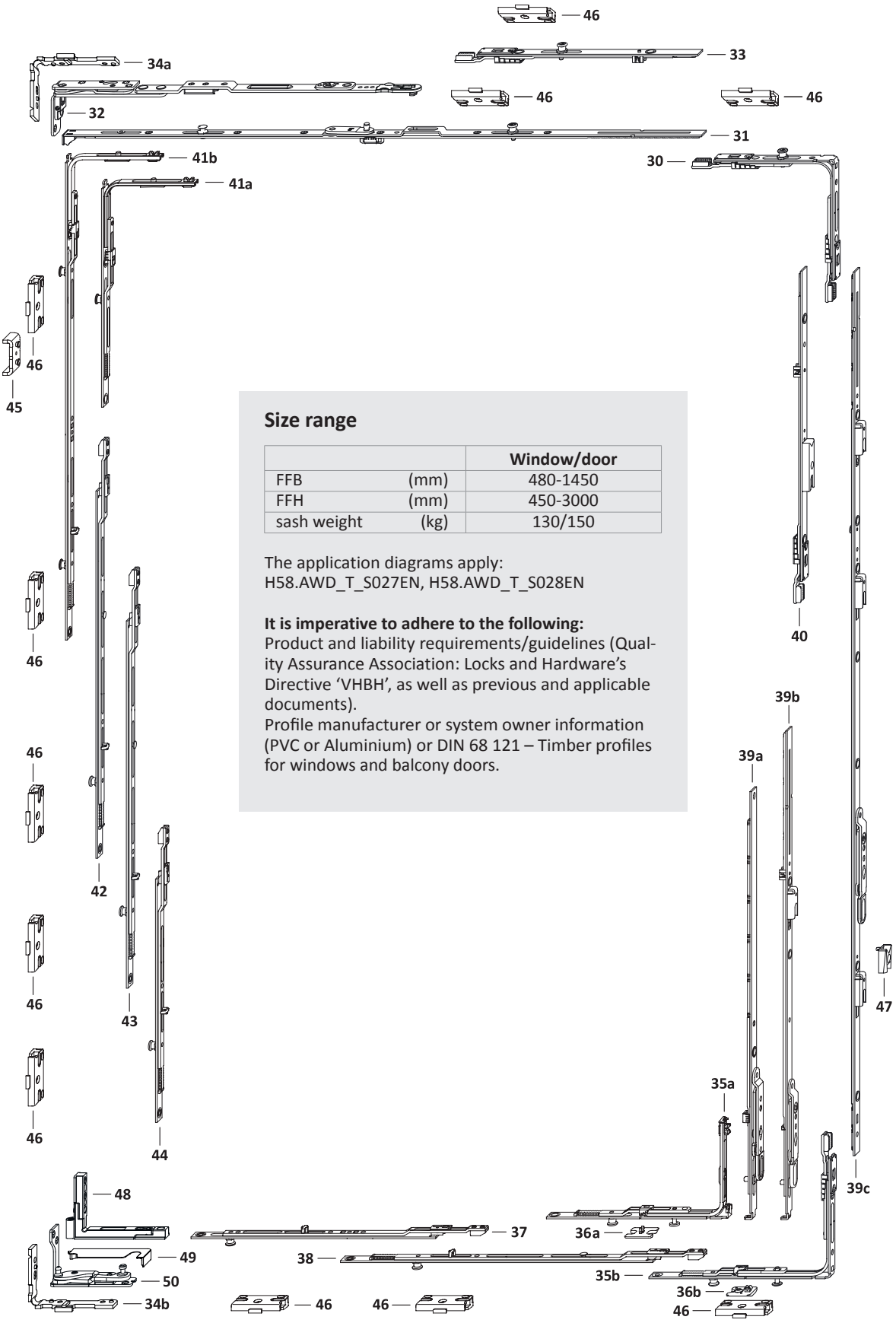
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	480-1450
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
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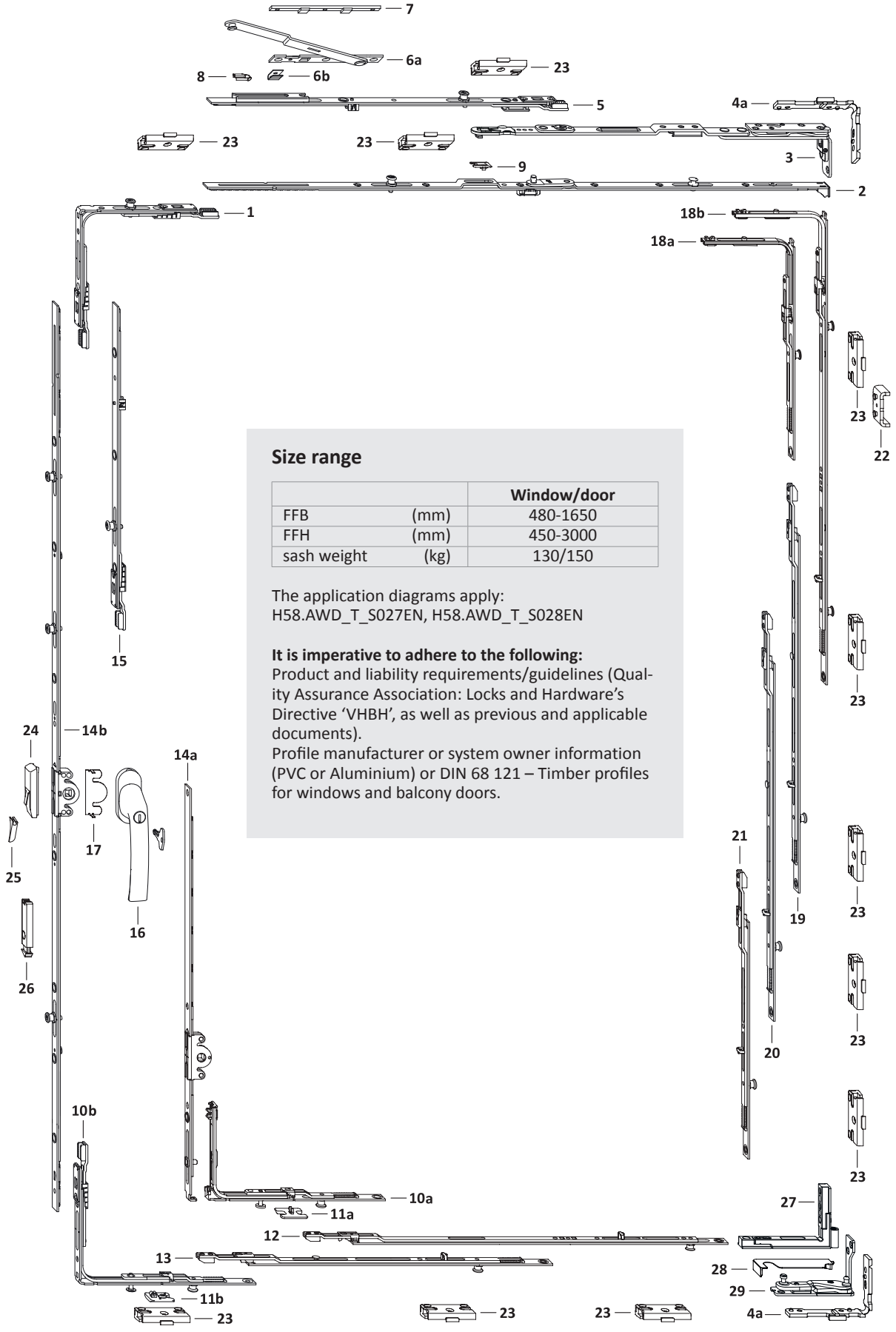
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

		Window/door
FFB	(mm)	480-1650
FFH	(mm)	450-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

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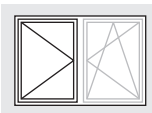
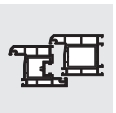
List of fittings slave sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





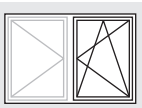
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
						In the main sash	46
30	corn.drive VSO 1RS	TEUL4010- ...	1	480–1450			1
31	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 750			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751– 850			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1450			1
32	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680			
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850			
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050			
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1450			
33	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450			1
34	crt. accessories AX	Ref. PDB, TMZV41	1	480–1450			
35a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480–1450	450– 800		1
35b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480–1450	801–3000		1
36a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480–1450	450– 800		
36b	run up block AF 13 mm 13	TFFH0080- ...	1	480–1450	801–3000		
37	extension sz 1+ 1RS	TVSO0200- ...	1	480– 500			1
	extension sz 2+ 1RS	TVSL0320- ...		501– 680			1
	extension sz 3+ 1RS	TVSL0330- ...		681– 850			1
	extension sz 2+ 1RS	TVSL0320- ...		851–1050			1
	extension sz 2+ 1RS	TVSL0320- ...		1051–1250			1
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450			1
38	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450			1
39a	sec.sash gear 16 sz 30	TGKS0010- ...	1	480–1250	450– 600	180	
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300	
39b	sec.sash gear 16 AF70/G300 1SB	TGKS4040- ...	1		701– 800	300	
39c	sec.sash gear 16 AF80/G400 1SB	TGKS4050- ...	1		801–1000	400	
	sec.sash gear 16 AF sz 100 1SB	TGKS4060- ...			1001–1200	500	
	sec.sash gear 16 AF120/G6001SB	TGKS4070- ...			1201–1400	600	
	sec.sash gear 16 AF140/G700 2S 70	TGKS4290- ...			1401–1600	700	
	sec.sash gear 16 AF160/G7002SB 70	TGKS4330- ...			1601–1800	700	
	sec.sash gear 16AF180/G10002SB 70	TGKS4270- ...			1801–2000	1000	
	sec.sash gear 16 AF200/G1000 3 70	TGKS4280- ...			2001–2200	1000	
	sec.sash gear 16 AF220/G1000 3 70	TGKS4320- ...			2201–3000	1000	
40	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2600		
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2601–2800		
	linkage AF sz 3 1SB-RS	TZKS1080- ...			2801–3000		
41a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450– 800		1
41b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
42	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000		1
43	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000		1
44	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000		1
45	anti-lift device	Ref. PDB, TFAH	1		450–3000		
46	striker plate S-RS	Ref. PDB, TRSK					
on request							
47	striker snapper AF A0767	TRST0100- ...	1		1801–3000		

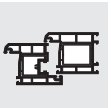
Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
48	corner hinge AX	Ref. PDB, TBEB41		1	1
49	cover cap AX EL	Ref. PDB, TKEL41		1	1
50	bottom hinge AX	Ref. PDB, TBEV41		1	1

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							23
1	corn.drive VSO 1RS	TEUL4010- ...	1	480–1650			1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 750			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751– 850			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650			1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680			
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850			
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050			
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250			
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450			
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650			
4	crt. accessories AX	Ref. PDB, TMZV41	1	480–1650			
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650			1
6	additional stay	Ref. PDB, TSZS	1	1251–1650			
7	packer Z	Ref. PDB, FRUP01	1	1251–1650			
8	tilt restr. additional stay ..	889008	1	1251–1650			
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	450– 900		
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	450– 900		
10a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480–1250	450– 600		1
10b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480–1650	601–3000		1
11a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480–1250	450– 600		
11b	run up block AF 13 mm 13	TFFH0080- ...	1	480–1650	601–3000		
12	extension sz 1+ 1RS	TVSO0200- ...	1	480– 500			1
	extension sz 2+ 1RS	TVSL0320- ...		501– 680			1
	extension sz 3+ 1RS	TVSL0330- ...		681– 850			1
	extension sz 2+ 1RS	TVSL0320- ...		851–1050			1
	extension sz 2+ 1RS	TVSL0320- ...		1051–1250			1
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450			1
	extension sz 6+ 1RS	TVSL0360- ...		1451–1650			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650			1
14a	gear 15 sz 30/G180	TGKK3010- ...	1	480–1250	450– 600	180	
14b	gear 15 AF sz 60/G300	TGKK4030- ...	1		601– 700	300	
	gear 15 AF sz 70/G300 1RS	TGKK4040- ...			701– 800	300	
	gear 15 AF sz 80/G400 1RS	TGKK4050- ...			801–1000	400	
	gear 15 AF sz 100/G500 1RS	TGKK4060- ...			1001–1200	500	
	gear 15 AF sz 120/G600 1RS	TGKK4070- ...			1201–1400	600	
	gear 15 AF sz 140/700 2RS 70	TGKK4200- ...			1401–1600	700	
	gear 15 AF sz 160/G700 1RS 70	TGKK4280- ...			1601–1800	700	
	gear 15 AF sz 180/G1000 2RS 70	TGKK4220- ...			1801–2000	1000	
	gear 15 AF sz 200/G1000 3RS 70	TGKK4230- ...			2001–2200	1000	
	gear 15 AF sz 220/G1000 3RS 70	TGKK4240- ...			2201–3000	1000	
15	linkage KK/AF sz 1 1RS	TZKK1010- ...	1		2401–2600		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2601–2800		
	linkage KK/AF sz 3 1RS	TZKK1050- ...			2801–3000		
16	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		450–3000		
17	anti-drill guard E	TGBS0010- ...	1		450–3000		
18a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		450– 800		1
18b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000		1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000		1
21	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000		1
22	anti-lift device	Ref. PDB, TFAH	1		450–3000		
23	striker plate S-RS	Ref. PDB, TRSK					
on request							
24	mishandling device	TFBS0010- ...	1		601–3000		

List of fittings main sash

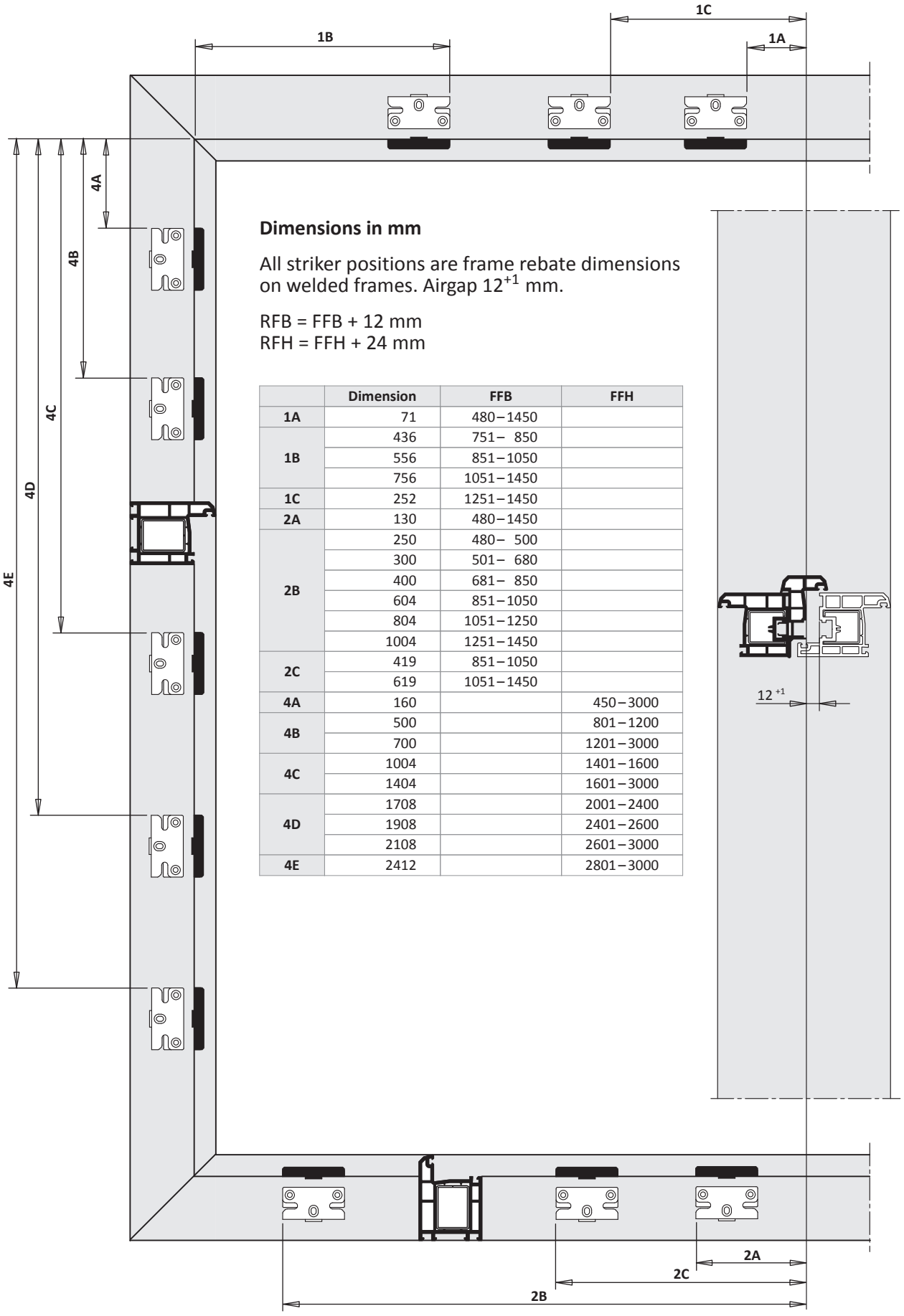
2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							23
25	pressure piece	Ref. PDB, TFFD	1		601 – 3000		
26	snapper rh.	TFST0021- ...	1		1801 – 3000		
	snapper lh.	TFST0022- ...			1801 – 3000		

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
27	corner hinge AX	Ref. PDB, TBEB41		1	1
28	cover cap AX EL	Ref. PDB, TKEL41		1	1
29	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

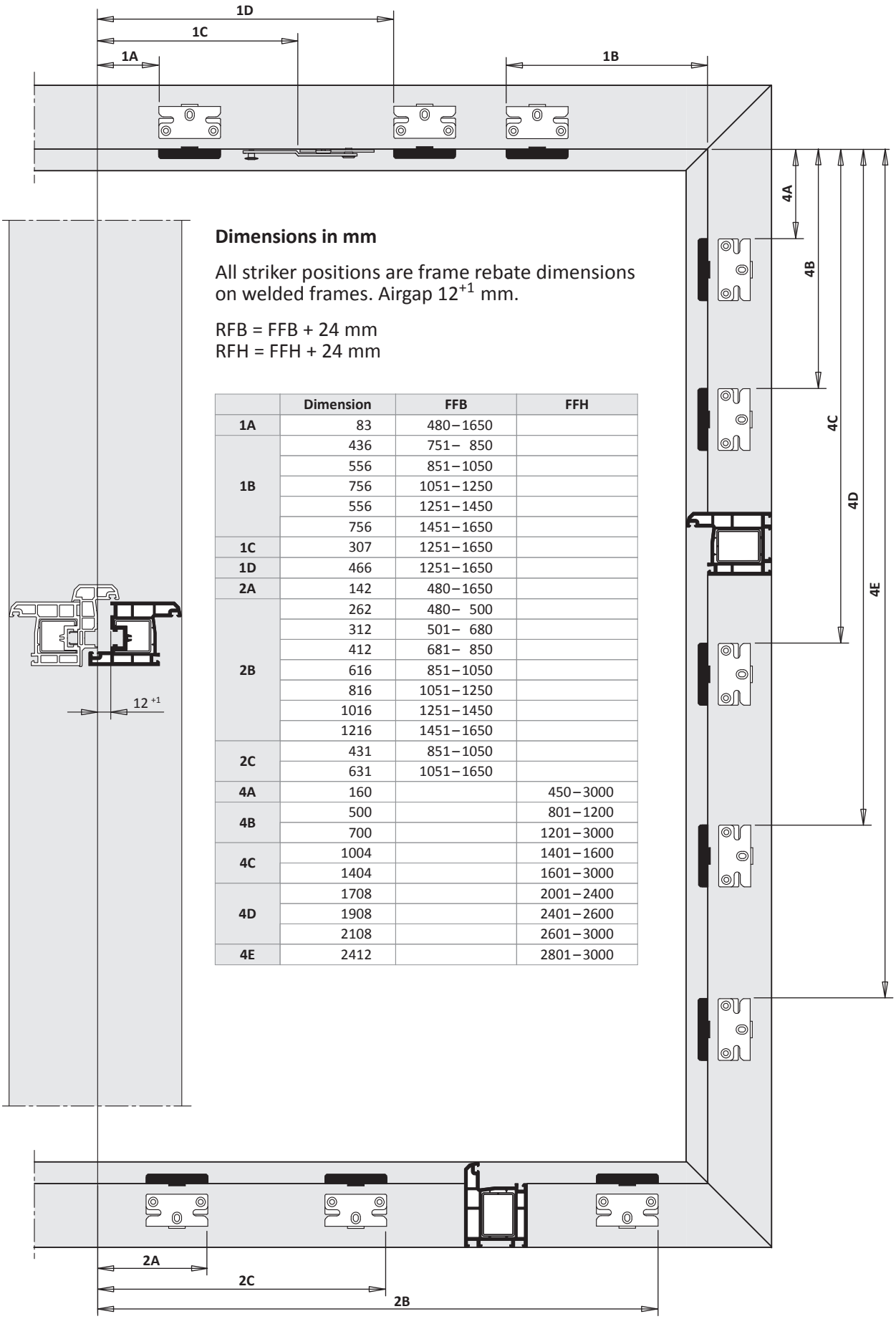
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	480–1450	
1B	436	751– 850	
	556	851–1050	
	756	1051–1450	
1C	252	1251–1450	
2A	130	480–1450	
2B	250	480– 500	
	300	501– 680	
	400	681– 850	
	604	851–1050	
	804	1051–1250	
	1004	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		450–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GK Hinge side axxent 24+



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	436	751– 850	
	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	480–1650	
2B	262	480– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1216	1451–1650	
2C	431	851–1050	
	631	1051–1650	
4A	160		450–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

Bottom inliner

1-sash square tilt-turn H48.TAFKFM2S016EN 9 - 3

2-sash square tilt-turn/turn DS 16 H48.TAFKFM2S017EN 9 - 9

Tilt before turn (TBT)

1-sash square tilt before turn (TBT) H48.TAFKFM2S018EN 9 - 17

Bottom double cam SB R-RS

1-sash square tilt-turn H48.TAFKFM2S403DE 9 - 23

2-sash square tilt-turn/turn DS 16 H48.TAFKFM2S404DE 9 - 29

Locking-points distance 700

1-sash square tilt-turn H48.TAFKFM2S303DE 9 - 37

2-sash square tilt-turn/turn DS 16 H48.TAFKFM2S304DE 9 - 43

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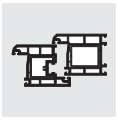
Installation instructions



RC2
ECO

1-sash square tilt-turn

PVC

RC2 ECO

centre handle pos. (variable)

Hinge side axxent 24+

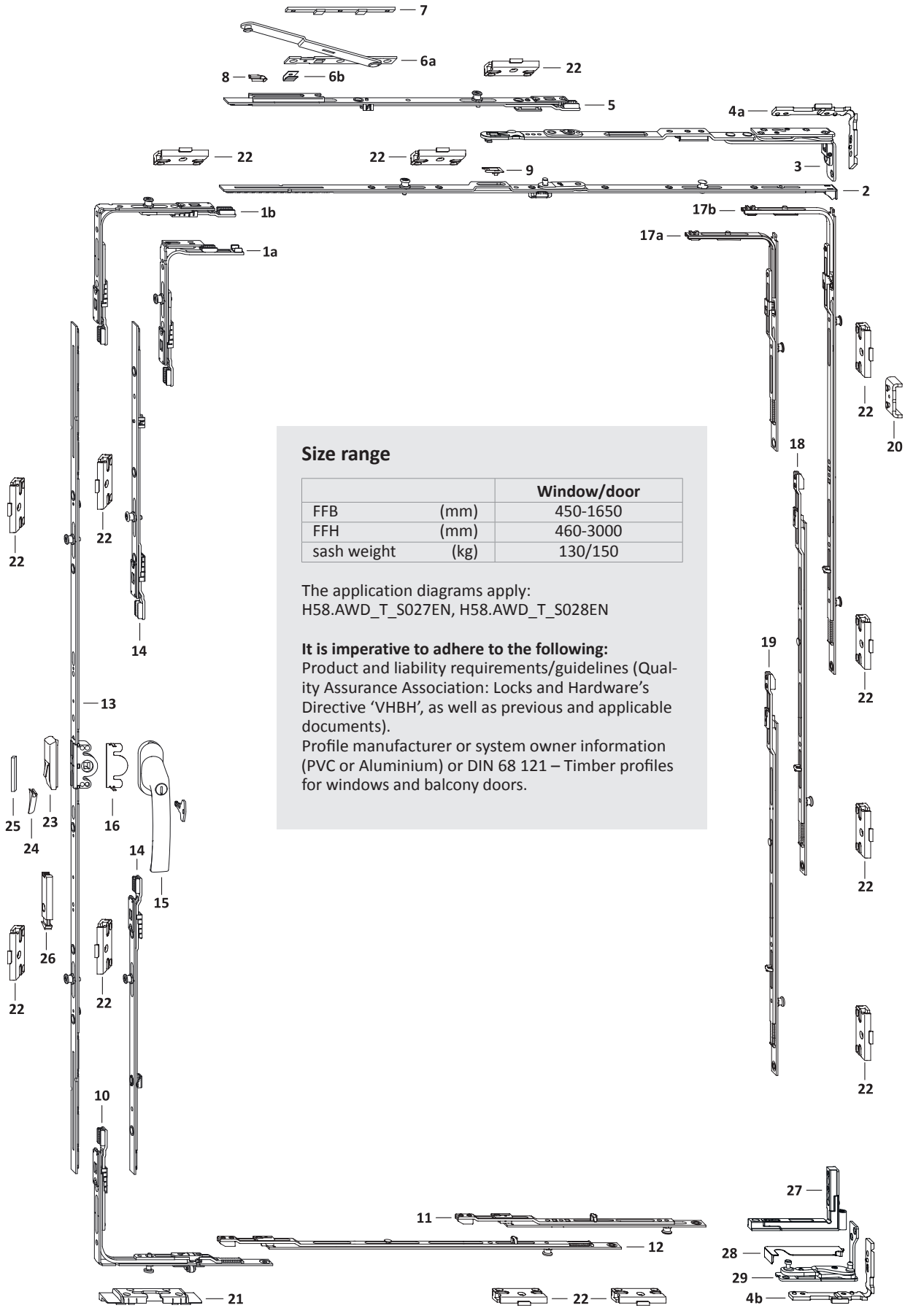
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout

1-sash square tilt-turn
PVC GM Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	450-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

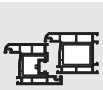
The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

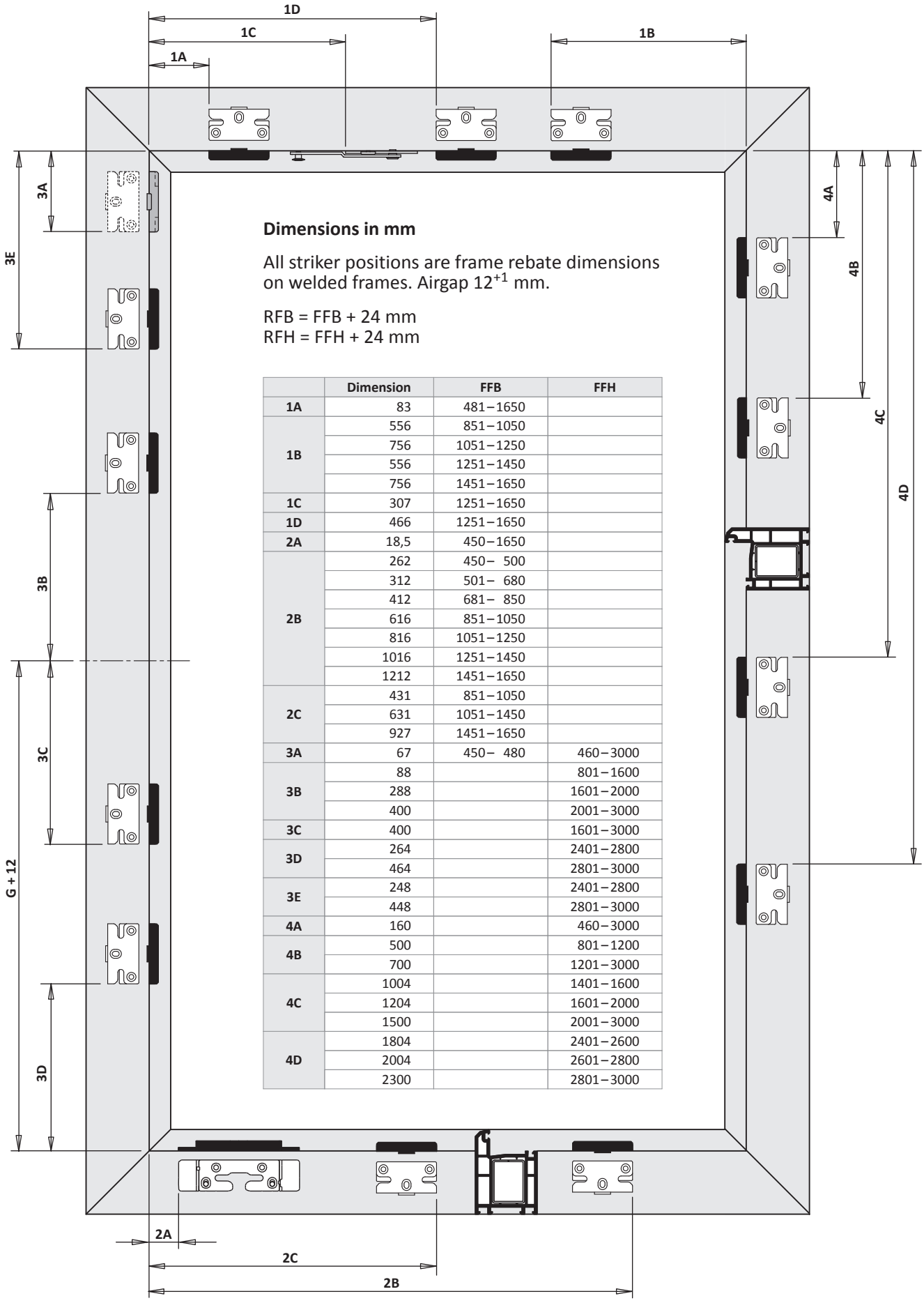
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							21	22
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	450– 480				1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	450– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	450– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	450–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	460– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	460– 900			
10	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	450–1650			1	
11	extension sz 1+ 1RS	TVSO0200- ...	1	450– 500				1
	extension sz 2+ 1RS	TVSL0320- ...		501– 680				1
	extension sz 3+ 1RS	TVSL0330- ...		681– 850				1
	extension sz 2+ 1RS	TVSL0320- ...		851–1250				1
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450				1
	extension sz 3+ 1RS	TVSL0330- ...		1451–1650				1
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
13	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		2
14	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
15	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460–3000			
16	anti-drill guard E	TGBS0010- ...	1		460–3000			
17a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800			1
17b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
20	anti-lift device	Ref. PDB, TFAH	1		460–3000			
21	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
22	striker plate S-RS	Ref. PDB, TRSK						
on request								
23	mishandling device	TFBS0010- ...	1					
24	pressure piece	Ref. PDB, TFFD	1					
25	stop	Ref. PDB, FRZF01	1					
26	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

List of fittings

1-sash square tilt-turn
PVC GM Hinge side axxent 24+



Hinge side turning points					
Pos.	**Description**	**Part number**		**required as per sash weight**	
		surface TS	RAL7037	130 kg	150 kg
27	corner hinge AX	Ref. PDB, TBEB41		1	1
28	cover cap AX EL	Ref. PDB, TKEL41		1	1
29	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	450–1650	
2B	262	450– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1212	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	450– 480	460–3000
3B	88		801–1600
	288		1601–2000
	400		2001–3000
3C	400		1601–3000
3D	264		2401–2800
	464		2801–3000
3E	248		2401–2800
	448		2801–3000
4A	160		460–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

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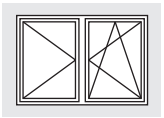
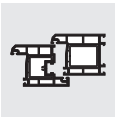
Installation instructions





RC2
ECO

2-sash square tilt-turn/turn DS 16

PVC

RC2 ECO

centre handle pos. (variable)

Hinge side axxent 24+

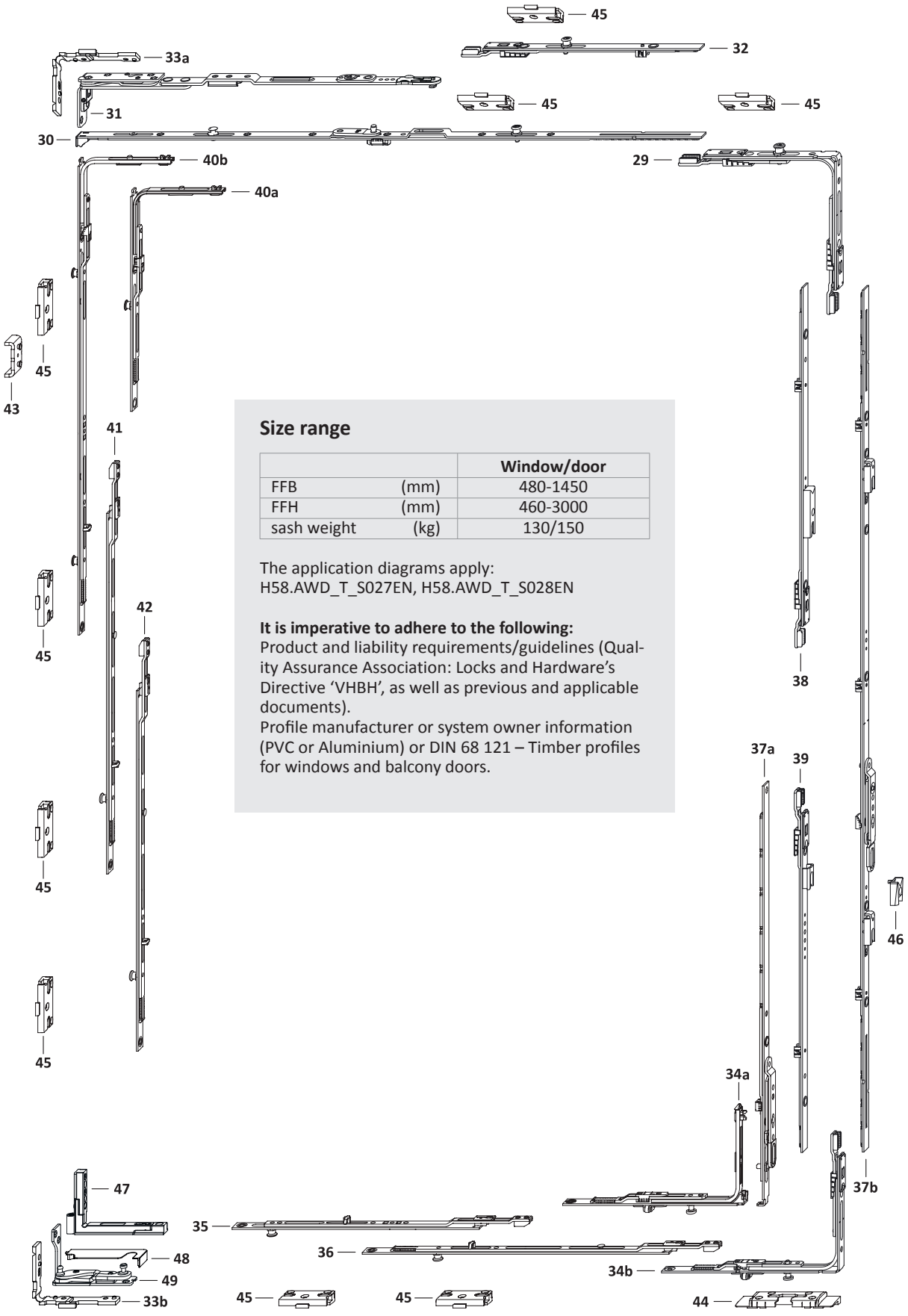
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	480-1450
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

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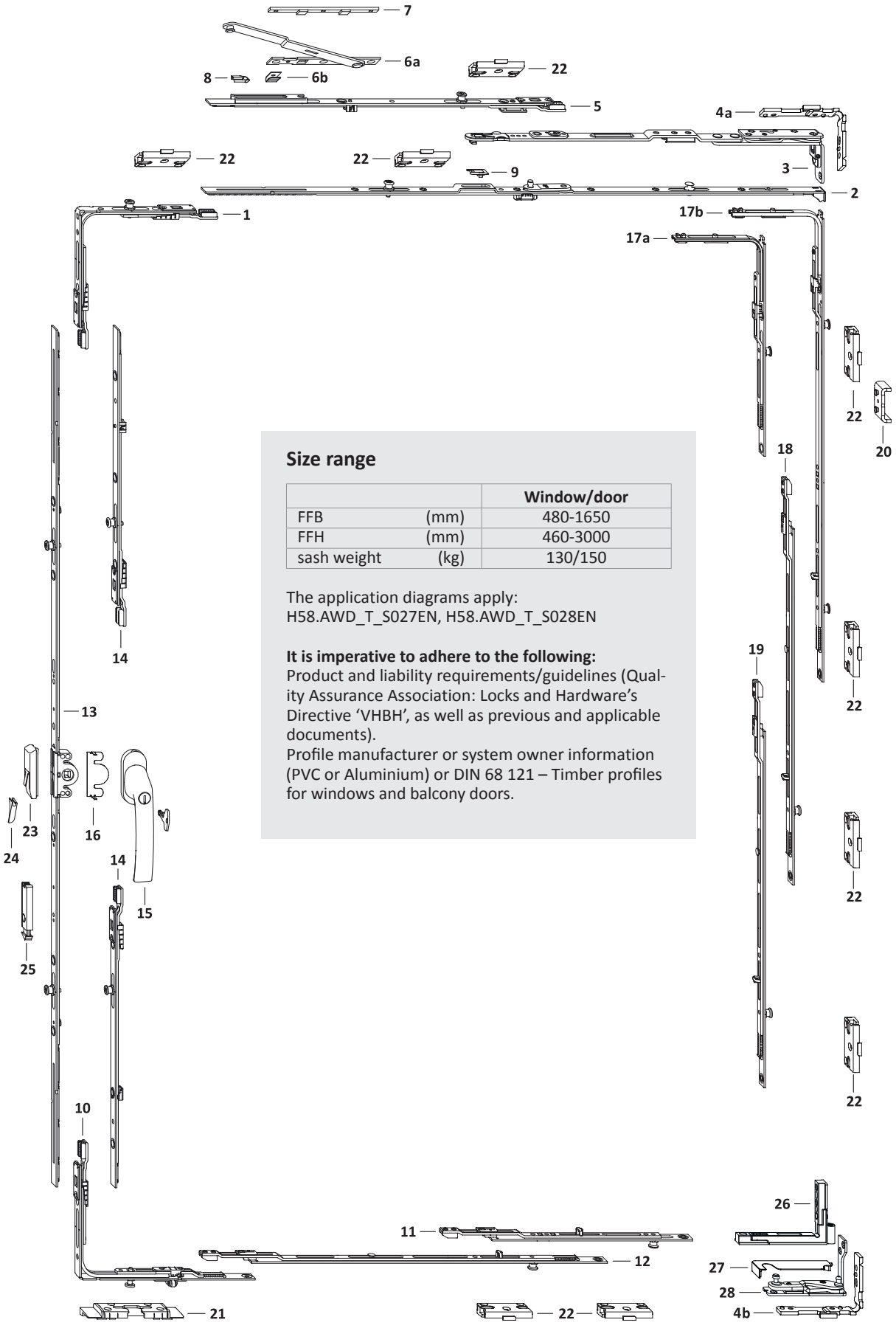

Size range

		Window/door
FFB	(mm)	480-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

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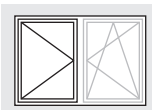
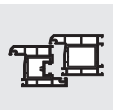
List of fittings slave sash

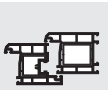
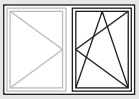
2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
						In the main sash	44	45
29	corn.drive VSO 1RS	TEUL4010- ...	1	480 – 1450				1
30	stay sash part AF AX sz 1	TSSV4000- ...	1	480 – 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681 – 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851 – 1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051 – 1450				1
31	stay arm AX sz 1	Ref. PDB, TSAV41	1	480 – 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681 – 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851 – 1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051 – 1450				
32	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251 – 1450				1
33	crt. accessories AX	Ref. PDB, TMZV41	1	480 – 1450				
34a	locking part VSU/K FH+ 1S	TEVR1400- ...	1	480 – 1450	460 – 800		1	
34b	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	480 – 1450	801 – 3000		1	
35	extension sz 1+ 1RS	TVSO0200- ...	1	480 – 500				1
	extension sz 2+ 1RS	TVSL0320- ...		501 – 680				1
	extension sz 3+ 1RS	TVSL0330- ...		681 – 850				1
	extension sz 2+ 1RS	TVSL0320- ...		851 – 1250				1
	extension sz 4+ 1RS	TVSL0340- ...		1251 – 1450				1
36	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450				1
37a	sec.sash gear 16 sz 30	TGKS0010- ...	1		460 – 600	230 – 300		
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601 – 800	300 – 400		
37b	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...	1		801 – 1200	400 – 600		
	sec.sash gear 16 AF sz 120 1SB	TGMS4050- ...			1201 – 1600	600 – 800		
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601 – 2000	800 – 1000		
	sec.sash gear 16 AF sz 200 2SB	TGMS4080- ...			2001 – 3000	1000 – 1500		
38	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401 – 2800			
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801 – 3000			
39	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401 – 2800			
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801 – 3000			
40a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460 – 800			1
40b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000			2
41	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000			1
42	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000			1
43	anti-lift device	Ref. PDB, TFAH	1		460 – 3000			
44	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
45	striker plate S-RS	Ref. PDB, TRSK						
on request								
46	striker snapper AF A0767	TRST0100- ...	1		1601 – 3000			

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
47	corner hinge AX	Ref. PDB, TBEB41		1	1
48	cover cap AX EL	Ref. PDB, TKEL41		1	1
49	bottom hinge AX	Ref. PDB, TBEV41		1	1

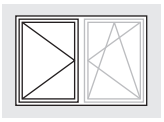



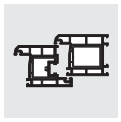
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							21	22
1	corn.drive VSO 1RS	TEUL4010- ...	1	480–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680				
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850				
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050				
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250				
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450				
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	480–1650				
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	1	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	460– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	460– 900			
10	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	480–1650			1	
11	extension sz 1+ 1RS	TVSO0200- ...	1	480– 500				1
	extension sz 2+ 1RS	TVSL0320- ...		501– 680				1
	extension sz 3+ 1RS	TVSL0330- ...		681– 850				1
	extension sz 2+ 1RS	TVSL0320- ...		851–1250				1
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450				1
	extension sz 3+ 1RS	TVSL0330- ...		1451–1650				1
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
13	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		
14	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			
15	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460–3000			
16	anti-drill guard E	TGBS0010- ...	1		460–3000			
17a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800			1
17b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
20	anti-lift device	Ref. PDB, TFAH	1		460–3000			
21	tilt lock bear. S-ES FH	Ref. PDB, FRKA						
22	striker plate S-RS	Ref. PDB, TRSK						
	on request							
23	mishandling device	TFBS0010- ...	1					
24	pressure piece	Ref. PDB, TFFD	1					
25	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

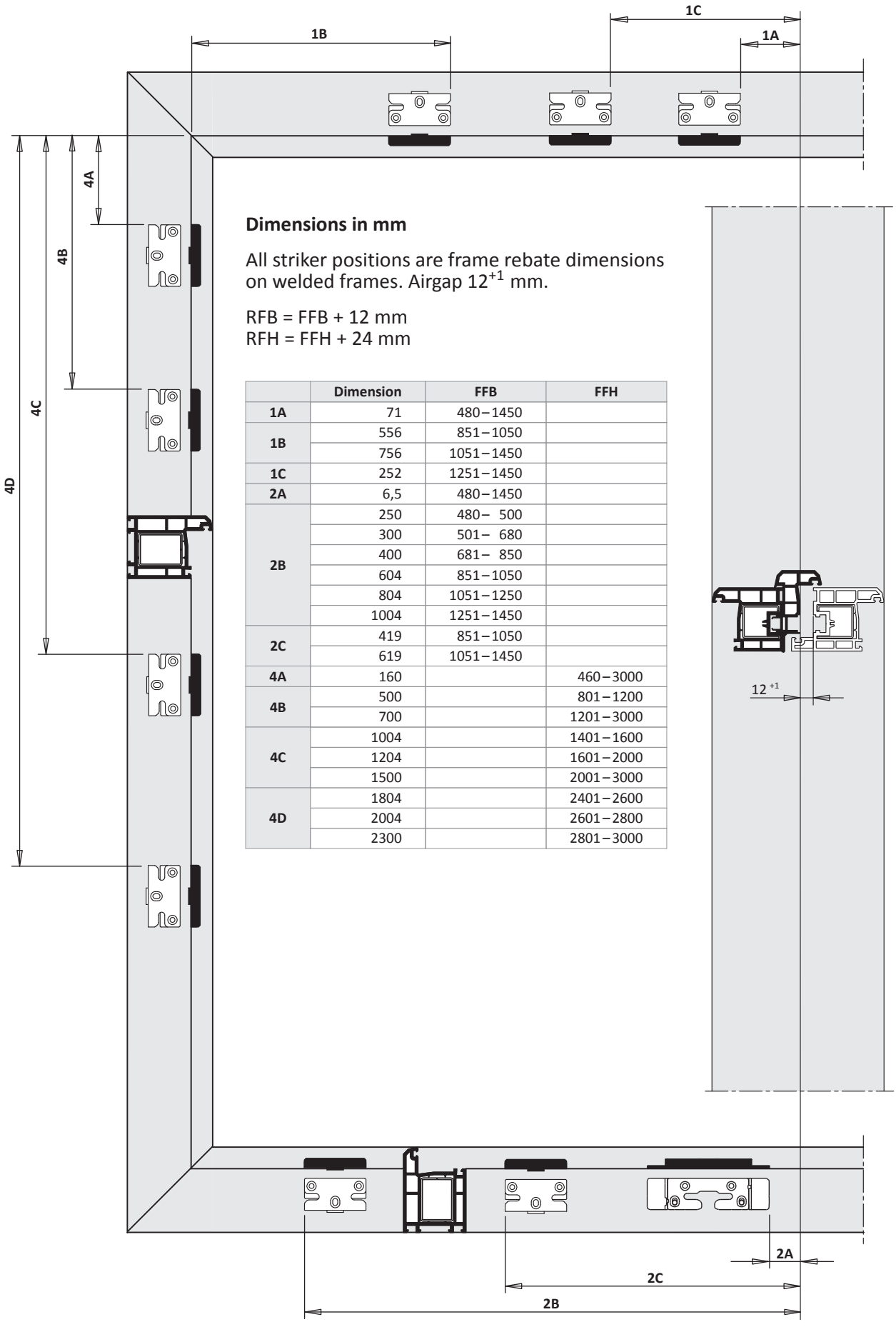
Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
26	corner hinge AX	Ref. PDB, TBEB41		1	1
27	cover cap AX EL	Ref. PDB, TKEL41		1	1
28	bottom hinge AX	Ref. PDB, TBEV41		1	1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+





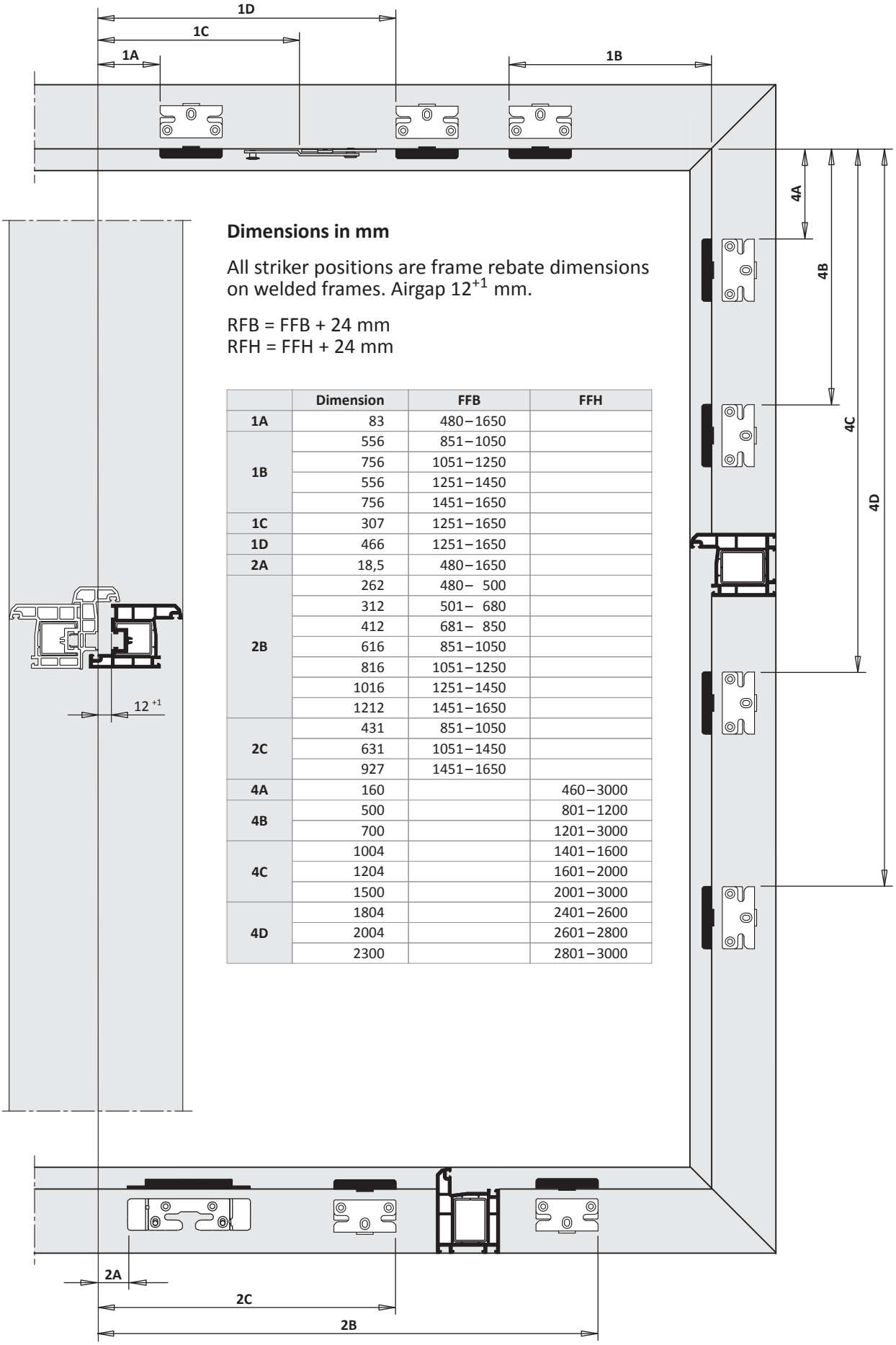


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	480–1450	
1B	556	851–1050	
	756	1051–1450	
1C	252	1251–1450	
2A	6,5	480–1450	
2B	250	480– 500	
	300	501– 680	
	400	681– 850	
	604	851–1050	
	804	1051–1250	
	1004	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		460–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	18,5	480–1650	
2B	262	480– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1212	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		460–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

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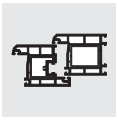
Installation instructions



RC2
ECO

1-sash square tilt before turn (TBT)

PVC

RC2 ECO

centre handle pos. (variable)

Hinge side axxent 24+

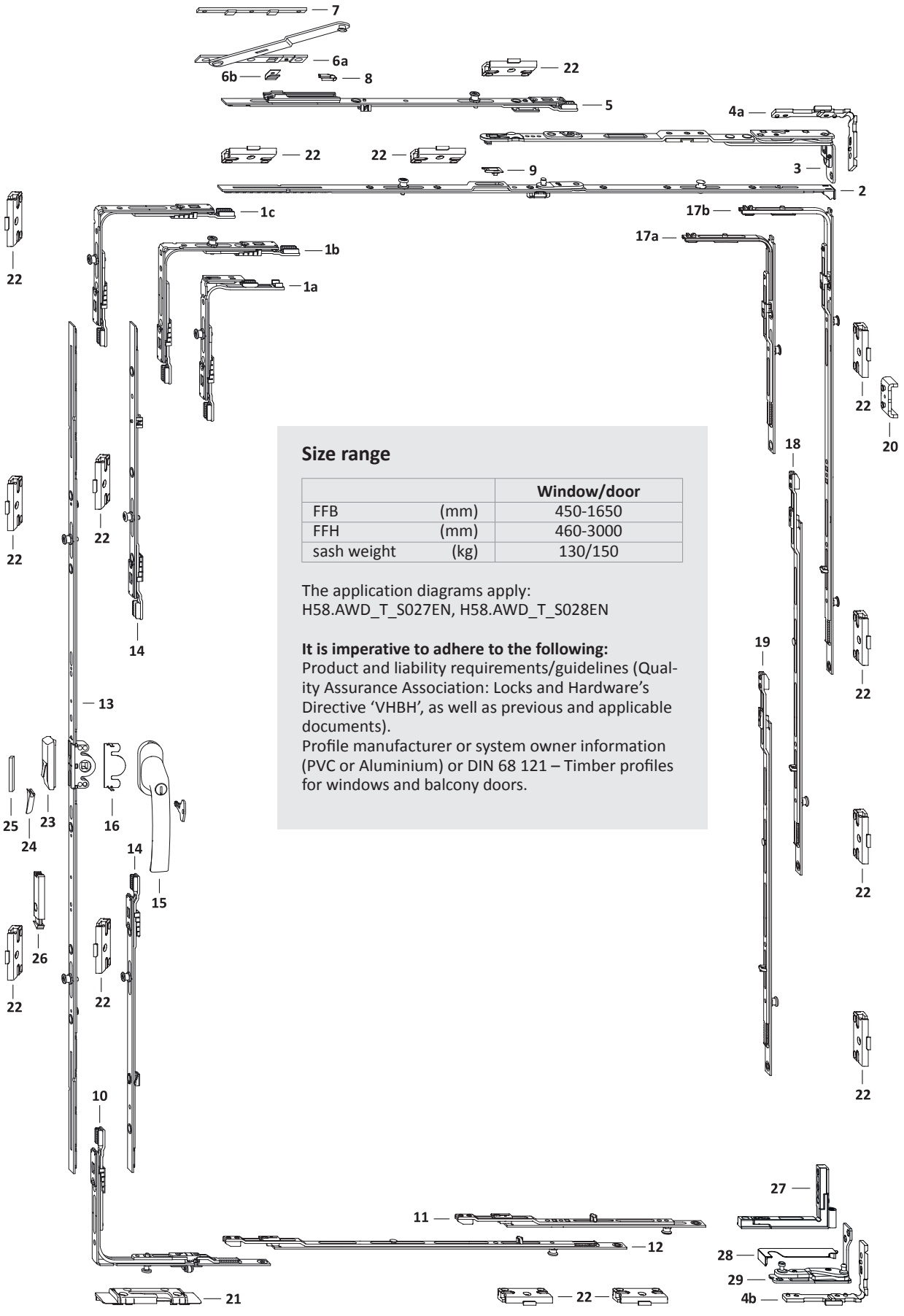
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	Inliner
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout

1-sash square tilt before turn (TBT)
PVC GM Hinge side axxent 24+

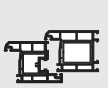


Size range

		Window/door
FFB	(mm)	450-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

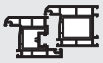
It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



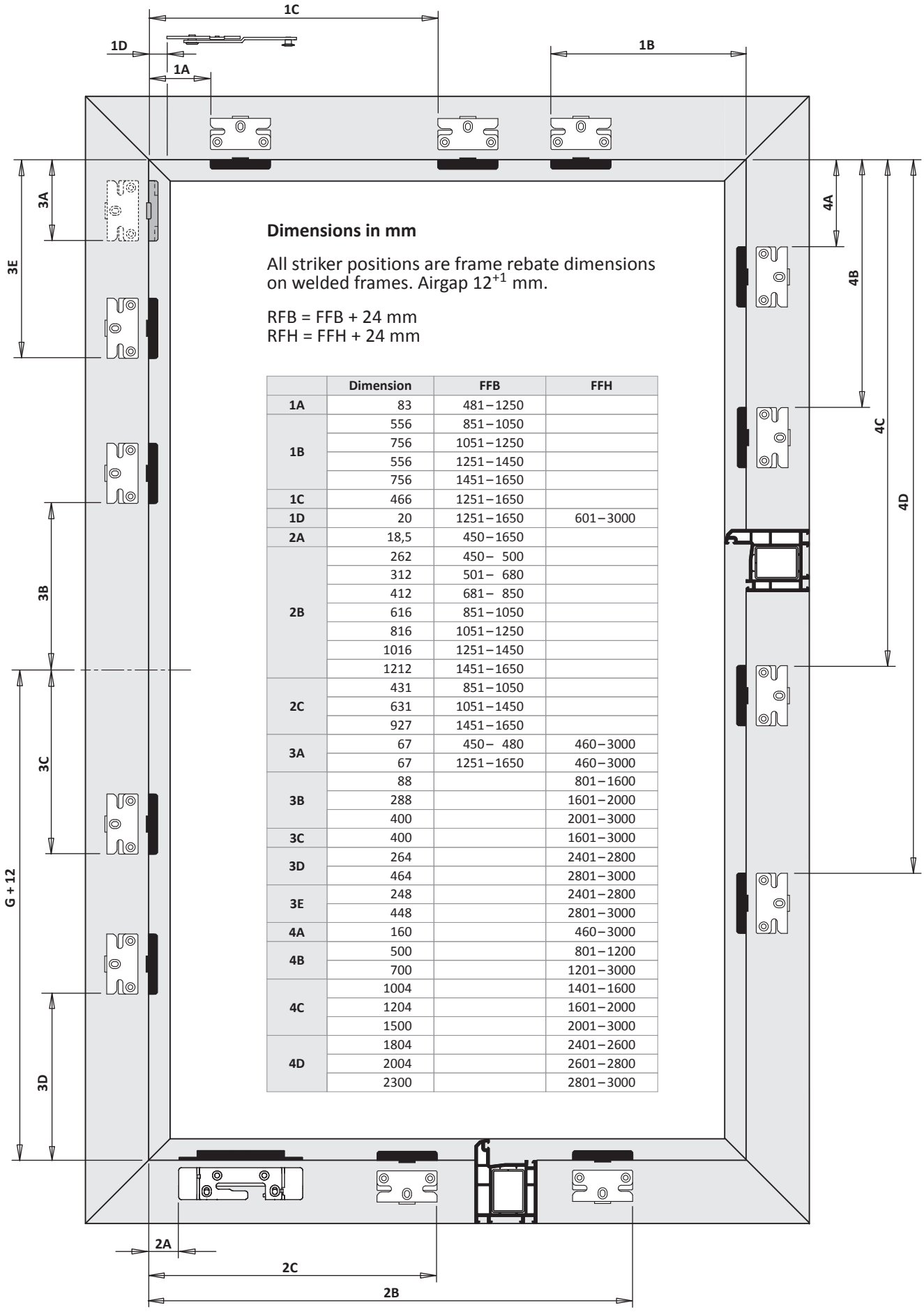
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.	
							21	22
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	450– 480				1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1250				1
1c	corn.drive VSO 1RS	TEUL4010- ...	1	1251–1650				1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	450– 680				
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850				
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250				1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450				1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650				1
3	stay arm AX TBT sz 1	Ref. PDB, TSAV51	1	450– 680				
	stay arm AX TBT sz 2+3	Ref. PDB, TSAV52		681– 850				
	stay arm AX TBT sz 4	Ref. PDB, TSAV54		851–1050				
	stay arm AX TBT sz 5	Ref. PDB, TSAV55		1051–1250				
	stay arm AX TBT sz 4	Ref. PDB, TSAV54		1251–1450				
	stay arm AX TBT sz 5	Ref. PDB, TSAV55		1451–1650				
4	crt. accessories AX	Ref. PDB, TMZV41	1	450–1650				
5	linkage add. stay AF TBT RS	TZOT1010- ...	1	1251–1650				1
6	additional stay	Ref. PDB, TSZS	1	1251–1650				
7	packer Z	Ref. PDB, FRUP01	2	1251–1650				
8	tilt restr. additional stay ..	889008	1	1251–1650				
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	460– 900			
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	460– 900			
10	corn.drive AF VSU/K+ FH 1S	TEUL5010- ...	1	450–1650			1	
11	extension sz 1+ 1RS	TVSO0200- ...	1	450– 500				1
	extension sz 2+ 1RS	TVSL0320- ...		501– 680				1
	extension sz 3+ 1RS	TVSL0330- ...		681– 850				1
	extension sz 2+ 1RS	TVSL0320- ...		851–1250				1
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450				1
	extension sz 3+ 1RS	TVSL0330- ...		1451–1650				1
12	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050				1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450				1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650				1
13	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300		
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400		
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600		1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800		1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000		2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500		2
14	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800			2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000			2
15	handle Globe TBT lockable	Ref.access. ZHGT	1		460–3000			
16	anti-drill guard E	TGBS0010- ...	1		460–3000			
17a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800			1
17b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200			2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000			2
18	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000			1
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000			1
20	anti-lift device	Ref. PDB, TFAH	1		460–3000			
21	tilt lock bear. S-ES FH TBT	Ref. PDB, FRKB						
22	striker plate S-RS	Ref. PDB, TRSK						
on request								
23	mishandling device	TFBS0010- ...	1					
24	pressure piece	Ref. PDB, TFFD	1					
25	stop	Ref. PDB, FRZF01	1					
26	snapper rh.	TFST0021- ...	1		1601–3000			
	snapper lh.	TFST0022- ...			1601–3000			

List of fittings

1-sash square tilt before turn (TBT)
PVC GM Hinge side axxent 24+



Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
27	corner hinge AX	Ref. PDB, TBEB41		1	1
28	cover cap AX EL	Ref. PDB, TKEL41		1	1
29	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1250	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	466	1251–1650	
1D	20	1251–1650	601–3000
2A	18,5	450–1650	
2B	262	450– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1212	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	450– 480	460–3000
	67	1251–1650	460–3000
3B	88		801–1600
	288		1601–2000
	400		2001–3000
3C	400		1601–3000
3D	264		2401–2800
	464		2801–3000
3E	248		2401–2800
	448		2801–3000
4A	160		460–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

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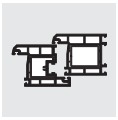
Installation instructions



RC2
ECO

1-sash square tilt-turn

PVC

RC2 ECO

centre handle pos. (variable)

Hinge side axxent 24+

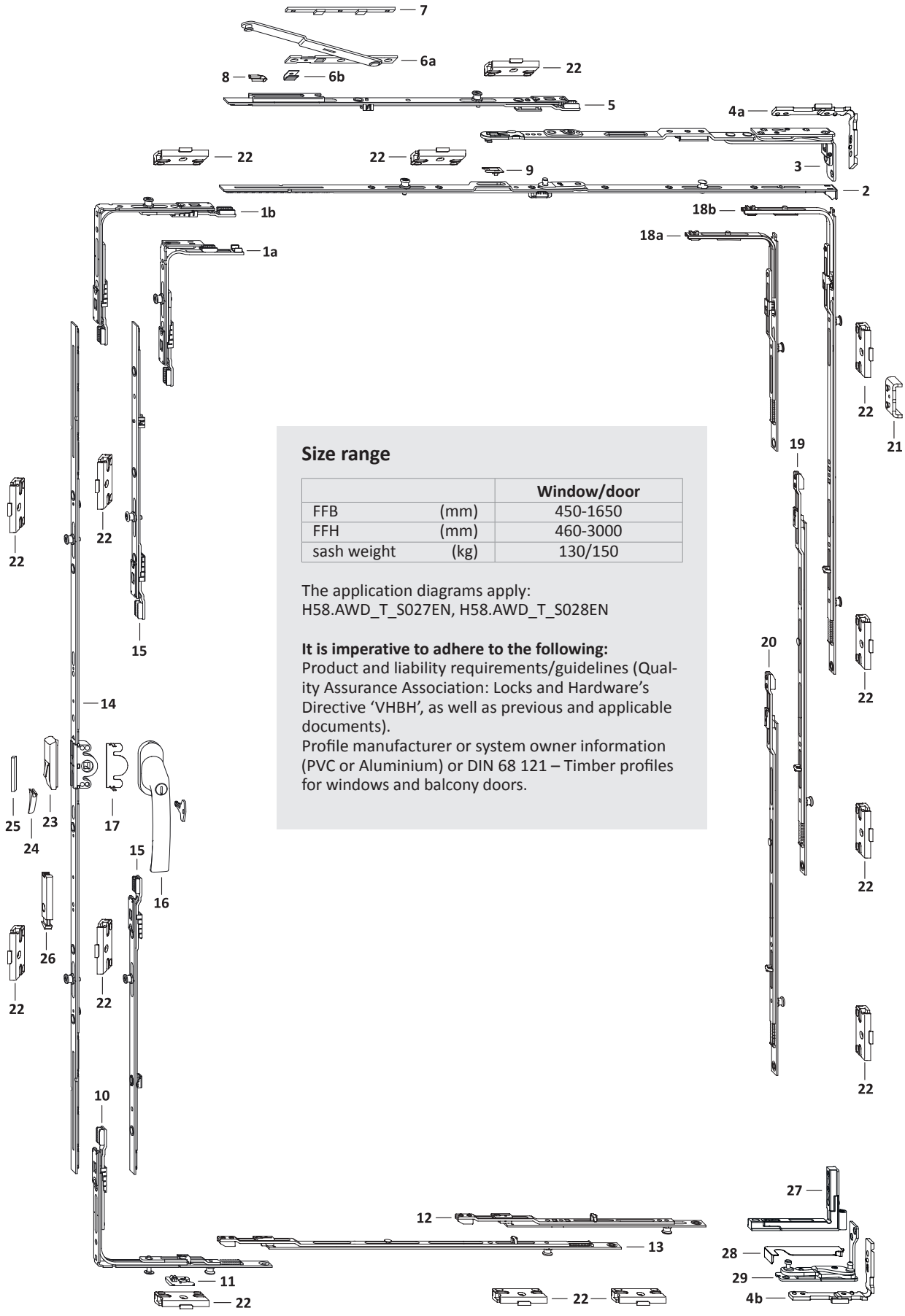
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout

1-sash square tilt-turn
PVC GM Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	450-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

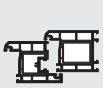
The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

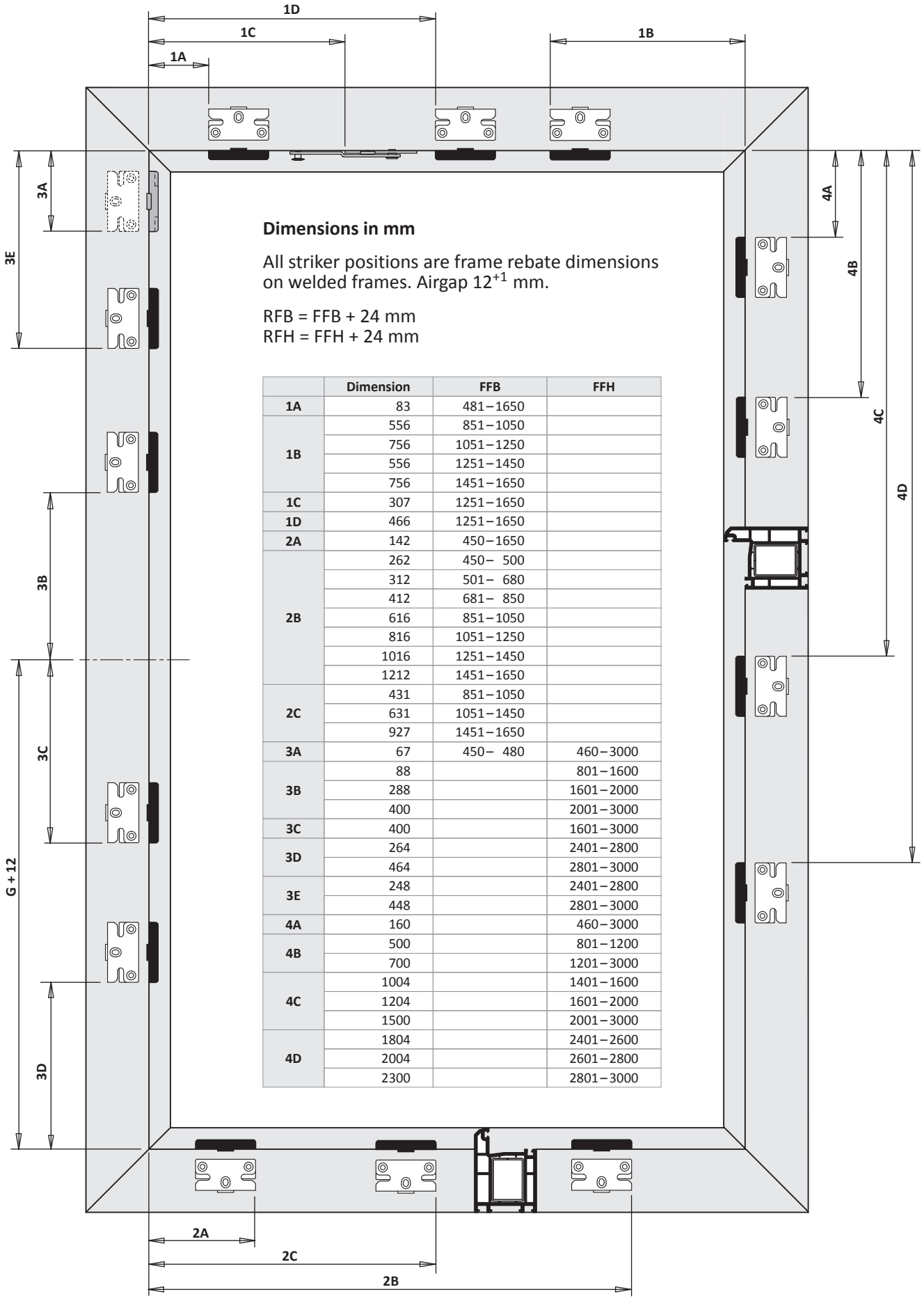
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							22
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	450– 480			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1650			1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	450– 680			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 850			
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650			1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	450– 680			
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850			
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050			
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250			
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450			
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650			
4	crt. accessories AX	Ref. PDB, TMZV41	1	450–1650			
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650			1
6	additional stay	Ref. PDB, TSZS	1	1251–1650			
7	packer Z	Ref. PDB, FRUP01	1	1251–1650			
8	tilt restr. additional stay ..	889008	1	1251–1650			
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	460– 900		
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	460– 900		
10	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	450–1650			1
11	run up block AF 13 mm 13	TFFH0080- ...	1	450–1650			
12	extension sz 1+ 1RS	TVSO0200- ...	1	450– 500			1
	extension sz 2+ 1RS	TVSL0320- ...		501– 680			1
	extension sz 3+ 1RS	TVSL0330- ...		681– 850			1
	extension sz 2+ 1RS	TVSL0320- ...		851–1250			1
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450			1
	extension sz 3+ 1RS	TVSL0330- ...		1451–1650			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451–1650			1
14	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300	
	gear 15 AF sz 60	TGMK4020- ...			601– 800	300– 400	
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600	1
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201–1600	600– 800	1
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000	2
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001–3000	1000–1500	2
15	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800		2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000		2
16	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460–3000		
17	anti-drill guard E	TGBS0010- ...	1		460–3000		
18a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800		1
18b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601–2000		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001–3000		1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401–2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601–2800		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801–3000		1
21	anti-lift device	Ref. PDB, TFAH	1		460–3000		
22	striker plate S-RS	Ref. PDB, TRSK					
			on request				
23	mishandling device	TFBS0010- ...	1				
24	pressure piece	Ref. PDB, TFFD	1				
25	stop	Ref. PDB, FRZF01	1				
26	snapper rh.	TFST0021- ...	1		1601–3000		
	snapper lh.	TFST0022- ...			1601–3000		

List of fittings

1-sash square tilt-turn
PVC GM Hinge side axxent 24+



Hinge side turning points					
Pos.	**Description**	**Part number**		**required as per sash weight**	
		surface TS	RAL7037	130 kg	150 kg
27	corner hinge AX	Ref. PDB, TBEB41		1	1
28	cover cap AX EL	Ref. PDB, TKEL41		1	1
29	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

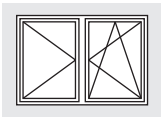
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

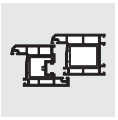
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	450–1650	
2B	262	450– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1212	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
3A	67	450– 480	460–3000
3B	88		801–1600
	288		1601–2000
	400		2001–3000
3C	400		1601–3000
3D	264		2401–2800
	464		2801–3000
3E	248		2401–2800
	448		2801–3000
4A	160		460–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions





RC2
ECO

2-sash square tilt-turn/turn DS 16

PVC

RC2 ECO

centre handle pos. (variable)

Hinge side axxent 24+

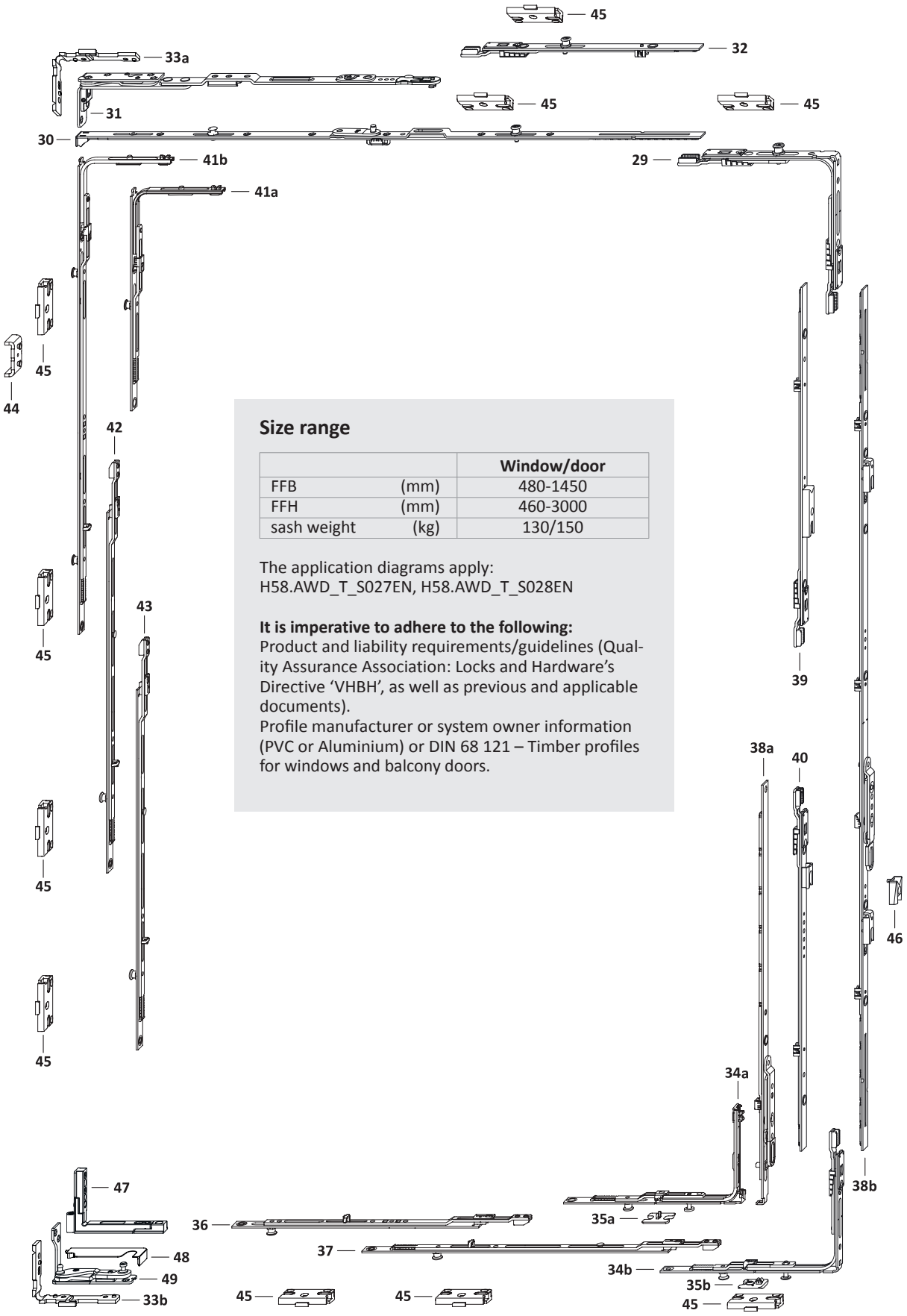
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 800
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+

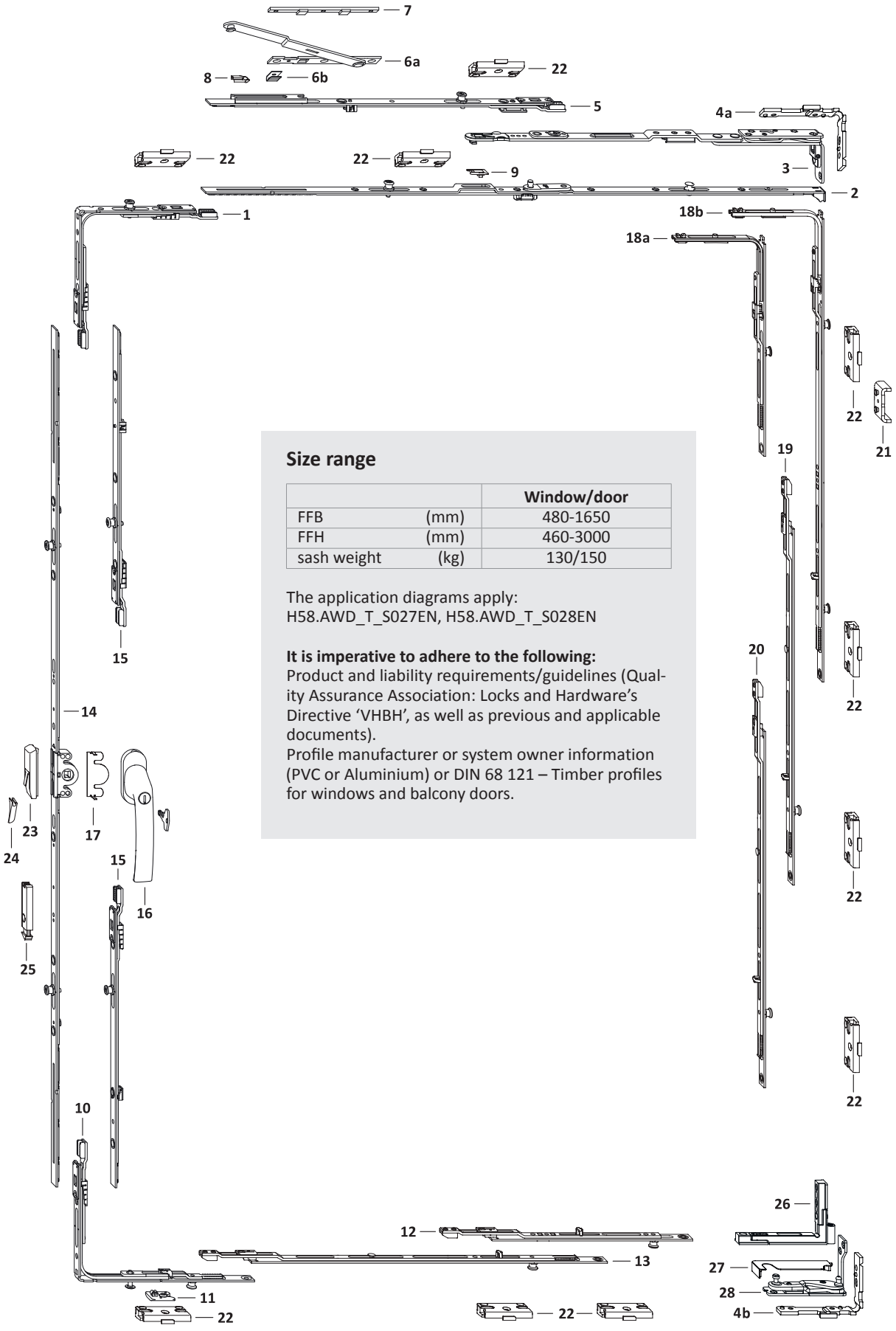


Size range

		Window/door
FFB	(mm)	480-1450
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.



Size range

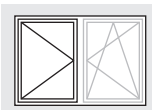
		Window/door
FFB	(mm)	480-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

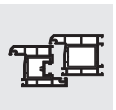
The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

List of fittings slave sash

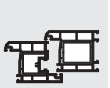
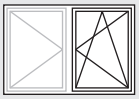
2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
						In the main sash	45
29	corn.drive VSO 1RS	TEUL4010- ...	1	480 – 1450			1
30	stay sash part AF AX sz 1	TSSV4000- ...	1	480 – 680			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681 – 850			
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851 – 1050			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051 – 1450			1
31	stay arm AX sz 1	Ref. PDB, TSAV41	1	480 – 680			
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681 – 850			
	stay arm AX sz 4	Ref. PDB, TSAV44		851 – 1050			
	stay arm AX sz 5	Ref. PDB, TSAV45		1051 – 1450			
32	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251 – 1450			1
33	crt. accessories AX	Ref. PDB, TMZV41	1	480 – 1450			
34a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480 – 1450	460 – 800		1
34b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480 – 1450	801 – 3000		1
35a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480 – 1450	460 – 800		
35b	run up block AF 13 mm 13	TFFH0080- ...	1	480 – 1450	801 – 3000		
36	extension sz 1+ 1RS	TVSO0200- ...	1	480 – 500			1
	extension sz 2+ 1RS	TVSL0320- ...		501 – 680			1
	extension sz 3+ 1RS	TVSL0330- ...		681 – 850			1
	extension sz 2+ 1RS	TVSL0320- ...		851 – 1250			1
	extension sz 4+ 1RS	TVSL0340- ...		1251 – 1450			1
37	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450			1
38a	sec.sash gear 16 sz 30	TGKS0010- ...	1		460 – 600	230 – 300	
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601 – 800	300 – 400	
38b	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...	1		801 – 1200	400 – 600	
	sec.sash gear 16 AF sz 120 1SB	TGMS4050- ...			1201 – 1600	600 – 800	
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601 – 2000	800 – 1000	
	sec.sash gear 16 AF sz 200 2SB	TGMS4080- ...			2001 – 3000	1000 – 1500	
39	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401 – 2800		
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801 – 3000		
40	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401 – 2800		
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801 – 3000		
41a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460 – 800		1
41b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000		2
42	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000		1
43	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000		1
44	anti-lift device	Ref. PDB, TFAH	1		460 – 3000		
45	striker plate S-RS	Ref. PDB, TRSK					
on request							
46	striker snapper AF A0767	TRST0100- ...	1		1601 – 3000		

Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
47	corner hinge AX	Ref. PDB, TBEB41		1	1
48	cover cap AX EL	Ref. PDB, TKEL41		1	1
49	bottom hinge AX	Ref. PDB, TBEV41		1	1

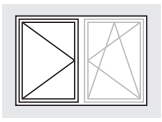



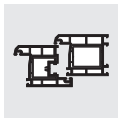
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							22
1	corn.drive VSO 1RS	TEUL4010- ...	1	480 – 1650			1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480 – 680			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681 – 850			
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851 – 1050			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051 – 1250			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251 – 1450			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451 – 1650			1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480 – 680			
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681 – 850			
	stay arm AX sz 4	Ref. PDB, TSAV44		851 – 1050			
	stay arm AX sz 5	Ref. PDB, TSAV45		1051 – 1250			
	stay arm AX sz 4	Ref. PDB, TSAV44		1251 – 1450			
	stay arm AX sz 5	Ref. PDB, TSAV45		1451 – 1650			
4	crt. accessories AX	Ref. PDB, TMZV41	1	480 – 1650			
5	linkage additional stay 1RS	TZOK1010- ...	1	1251 – 1650			1
6	additional stay	Ref. PDB, TSZS	1	1251 – 1650			
7	packer Z	Ref. PDB, FRUP01	1	1251 – 1650			
8	tilt restr. additional stay ..	889008	1	1251 – 1650			
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681 – 1050	460 – 900		
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051 – 1250	460 – 900		
10	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480 – 1650			1
11	run up block AF 13 mm 13	TFFH0080- ...	1	480 – 1650			
12	extension sz 1+ 1RS	TVSO0200- ...	1	480 – 500			1
	extension sz 2+ 1RS	TVSL0320- ...		501 – 680			1
	extension sz 3+ 1RS	TVSL0330- ...		681 – 850			1
	extension sz 2+ 1RS	TVSL0320- ...		851 – 1250			1
	extension sz 4+ 1RS	TVSL0340- ...		1251 – 1450			1
	extension sz 3+ 1RS	TVSL0330- ...		1451 – 1650			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1450			1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...		1451 – 1650			1
14	gear 15 AF sz 20	TGMK4010- ...	1		460 – 600	230 – 300	
	gear 15 AF sz 60	TGMK4020- ...			601 – 800	300 – 400	
	gear 15 AF sz 80 1RS	TGMK4040- ...			801 – 1200	400 – 600	
	gear 15 AF sz 120 1RS	TGMK4050- ...			1201 – 1600	600 – 800	
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601 – 2000	800 – 1000	
	gear 15 AF sz 200 2RS	TGMK4080- ...			2001 – 3000	1000 – 1500	
15	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401 – 2800		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000		
16	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460 – 3000		
17	anti-drill guard E	TGBS0010- ...	1		460 – 3000		
18a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460 – 800		1
18b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000		2
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			1601 – 2000		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2001 – 3000		1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2401 – 2600		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2601 – 2800		1
	linkage BS/FH sz 3+ 1RS	TZBS0200- ...			2801 – 3000		1
21	anti-lift device	Ref. PDB, TFAH	1		460 – 3000		
22	striker plate S-RS	Ref. PDB, TRSK					
			on request				
23	mishandling device	TFBS0010- ...	1				
24	pressure piece	Ref. PDB, TFFD	1				
25	snapper rh.	TFST0021- ...	1		1601 – 3000		
	snapper lh.	TFST0022- ...			1601 – 3000		

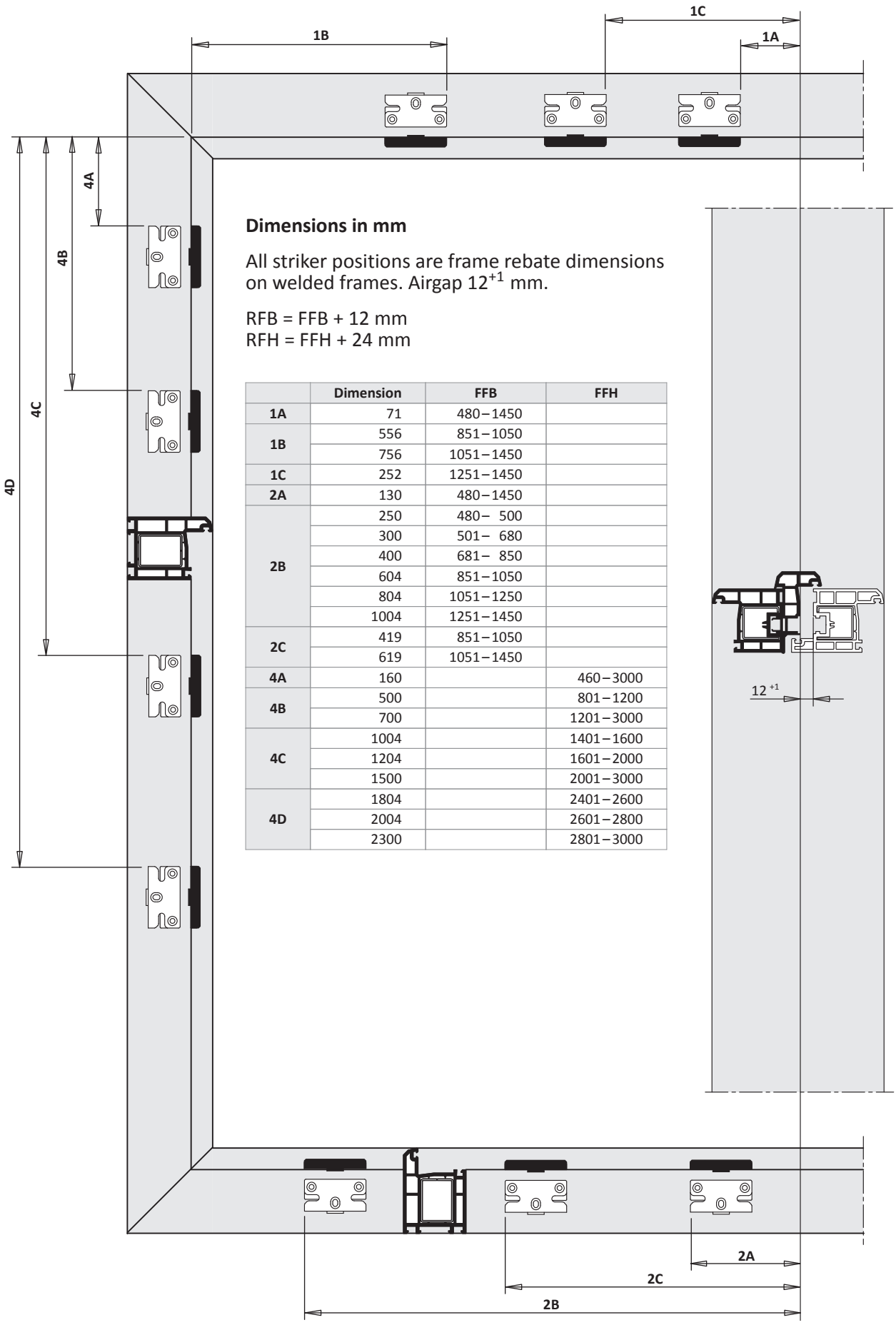
Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
26	corner hinge AX	Ref. PDB, TBEB41		1	1
27	cover cap AX EL	Ref. PDB, TKEL41		1	1
28	bottom hinge AX	Ref. PDB, TBEV41		1	1

Frame dimensions slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+





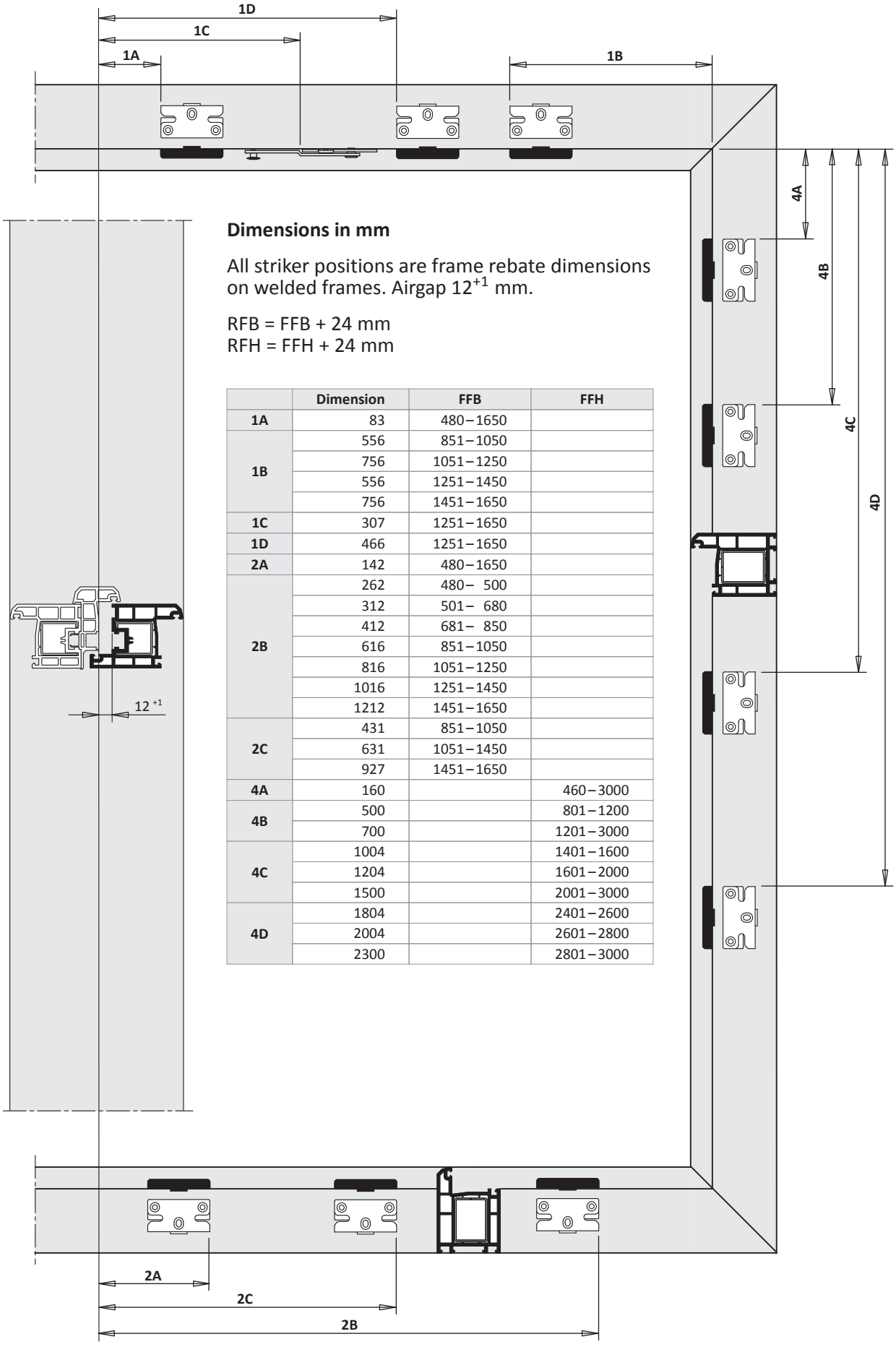


Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	480–1450	
1B	556	851–1050	
	756	1051–1450	
1C	252	1251–1450	
2A	130	480–1450	
2B	250	480– 500	
	300	501– 680	
	400	681– 850	
	604	851–1050	
	804	1051–1250	
	1004	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		460–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000



Dimensions in mm

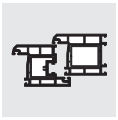
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	480–1650	
2B	262	480– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1212	1451–1650	
2C	431	851–1050	
	631	1051–1450	
	927	1451–1650	
4A	160		460–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1204		1601–2000
	1500		2001–3000
4D	1804		2401–2600
	2004		2601–2800
	2300		2801–3000

TITAN AF

Installation instructions



RC2
ECO

1-sash square tilt-turn

PVC

RC2 ECO

centre handle pos. (variable)

Hinge side axxent 24+

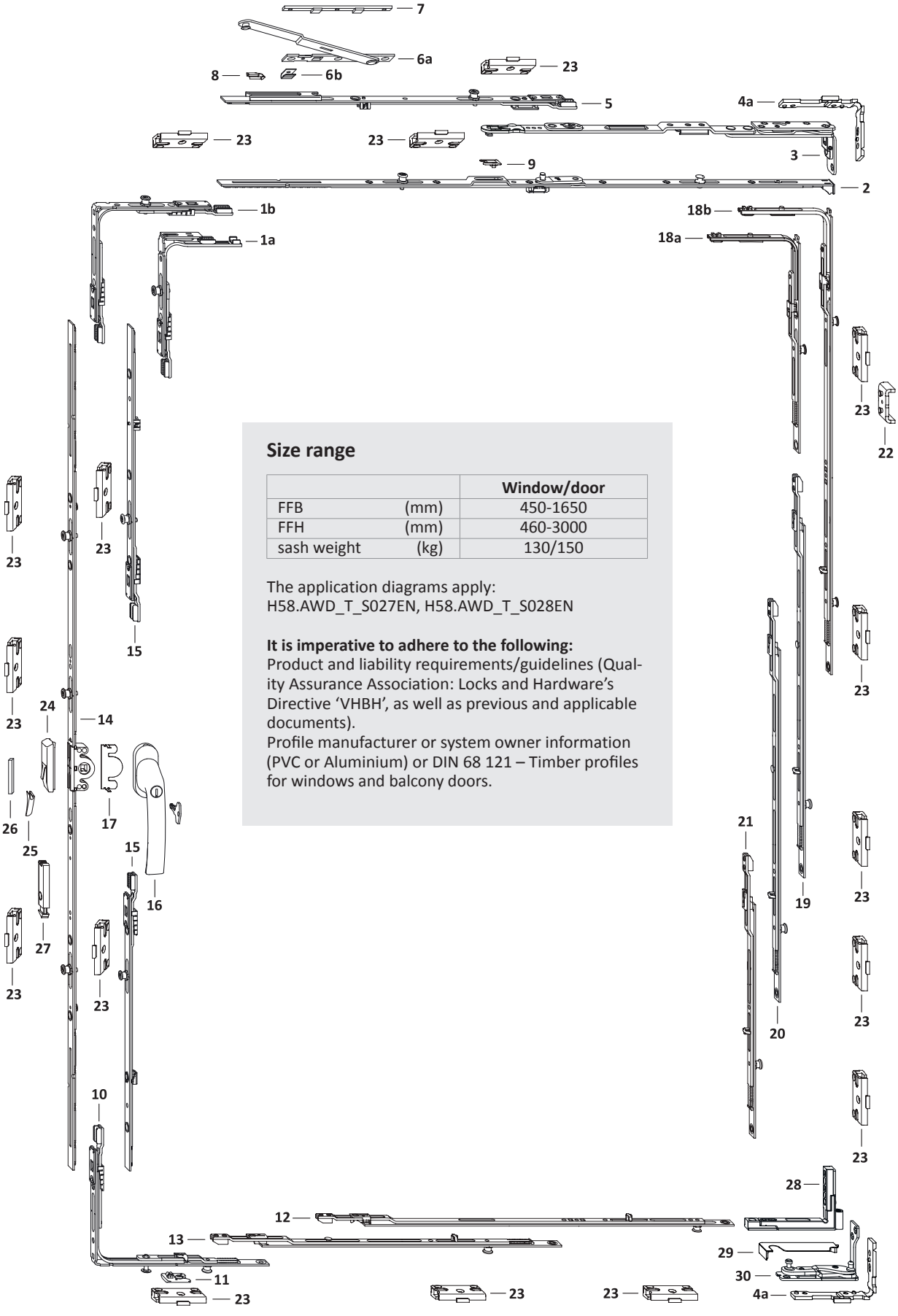
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout

1-sash square tilt-turn
PVC GM Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	450-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

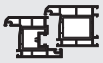
The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

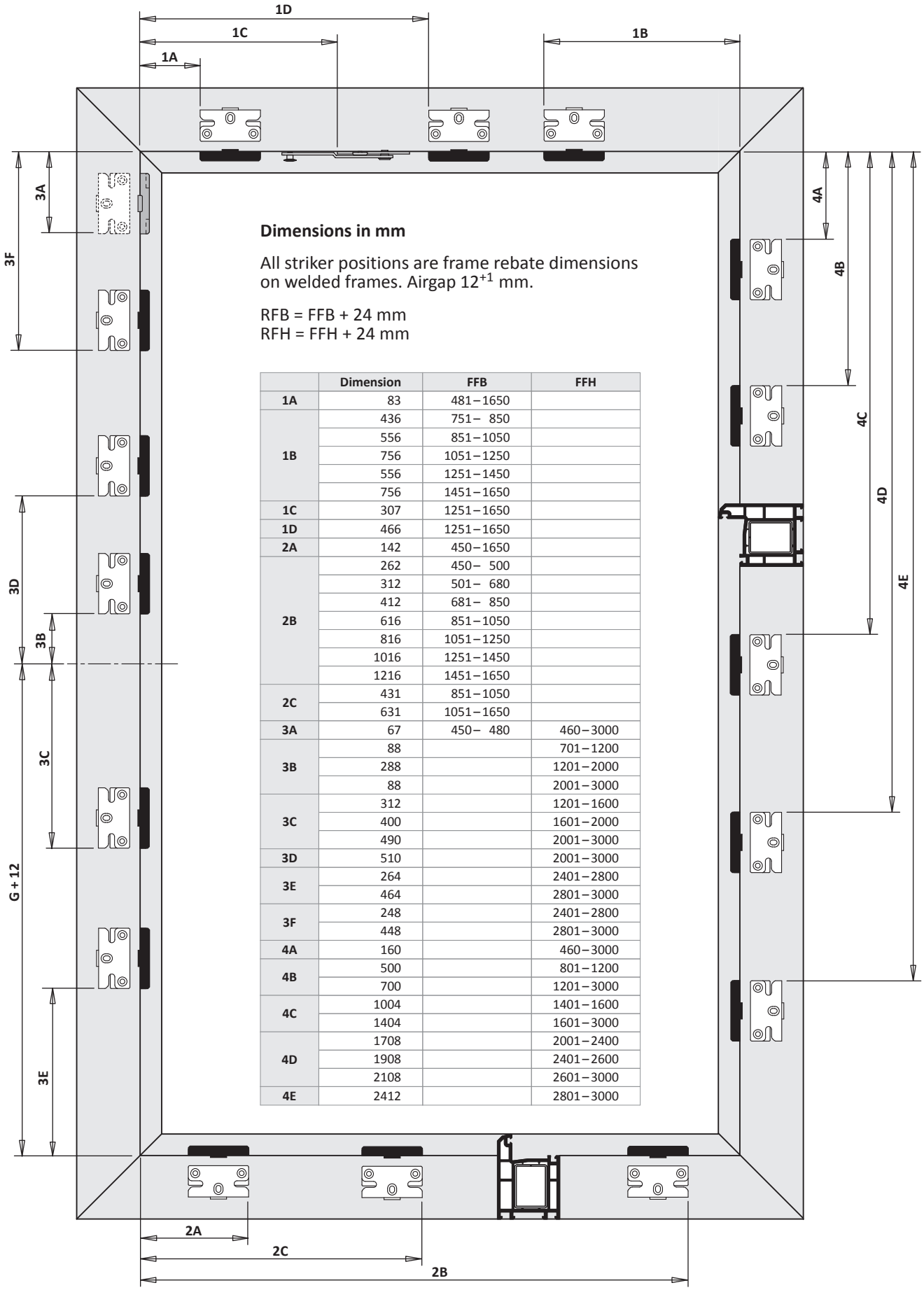
Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							23
1a	corn.drive AF VSO narrow 1RS	TEUL4020- ...	1	450– 480			1
1b	corn.drive VSO 1RS	TEUL4010- ...	1	481–1650			1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	450– 680			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 750			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751– 850			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1250			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251–1450			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451–1650			1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	450– 680			
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850			
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050			
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1250			
	stay arm AX sz 4	Ref. PDB, TSAV44		1251–1450			
	stay arm AX sz 5	Ref. PDB, TSAV45		1451–1650			
4	crt. accessories AX	Ref. PDB, TMZV41	1	450–1650			
5	linkage additional stay 1RS	TZOK1010- ...	1	1251–1650			1
6	additional stay	Ref. PDB, TSZS	1	1251–1650			
7	packer Z	Ref. PDB, FRUP01	1	1251–1650			
8	tilt restr. additional stay ..	889008	1	1251–1650			
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681–1050	460– 900		
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051–1250	460– 900		
10	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	450–1650			1
11	run up block AF 13 mm 13	TFFH0080- ...	1	450–1650			
12	extension sz 1+ 1RS	TVSO0200- ...	1	450– 500			1
	extension sz 2+ 1RS	TVSL0320- ...		501– 680			1
	extension sz 3+ 1RS	TVSL0330- ...		681– 850			1
	extension sz 2+ 1RS	TVSL0320- ...		851–1050			1
	extension sz 2+ 1RS	TVSL0320- ...		1051–1250			1
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450			1
	extension sz 6+ 1RS	TVSL0360- ...		1451–1650			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1650			1
14	gear 15 AF sz 20	TGMK4010- ...	1		460– 600	230– 300	
	gear 15 AF sz 60	TGMK4020- ...			601– 700	300– 350	
	gear 15 AF sz 70 1RS	TGMK4030- ...			701– 800	350– 400	1
	gear 15 AF sz 80 1RS	TGMK4040- ...			801–1200	400– 600	1
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201–1600	600– 800	2
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601–2000	800–1000	2
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001–3000	1000–1500	3
15	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401–2800		2
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801–3000		2
16	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460–3000		
17	anti-drill guard E	TGBS0010- ...	1		460–3000		
18a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800		1
18b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000		1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000		1
21	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000		1
22	anti-lift device	Ref. PDB, TFAH	1		460–3000		
23	striker plate S-RS	Ref. PDB, TRSK					
			on request				
24	mishandling device	TFBS0010- ...	1				
25	pressure piece	Ref. PDB, TFFD	1				
26	stop	Ref. PDB, FRZF01	1				
27	snapper rh.	TFST0021- ...	1		1601–3000		
	snapper lh.	TFST0022- ...			1601–3000		

List of fittings

1-sash square tilt-turn
PVC GM Hinge side axxent 24+



Hinge side turning points					
Pos.	**Description**	**Part number**		**required as per sash weight**	
		surface TS	RAL7037	130 kg	150 kg
28	corner hinge AX	Ref. PDB, TBEB41		1	1
29	cover cap AX EL	Ref. PDB, TKEL41		1	1
30	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

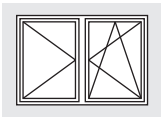
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

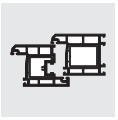
RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	481–1650	
1B	436	751– 850	
	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	450–1650	
2B	262	450– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1216	1451–1650	
2C	431	851–1050	
	631	1051–1650	
3A	67	450– 480	460–3000
3B	88		701–1200
	288		1201–2000
	88		2001–3000
3C	312		1201–1600
	400		1601–2000
	490		2001–3000
3D	510		2001–3000
3E	264		2401–2800
	464		2801–3000
3F	248		2401–2800
	448		2801–3000
4A	160		460–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

TITAN AF

Installation instructions





RC2
ECO

2-sash square tilt-turn/turn DS 16

PVC

RC2 ECO

centre handle pos. (variable)

Hinge side axxent 24+

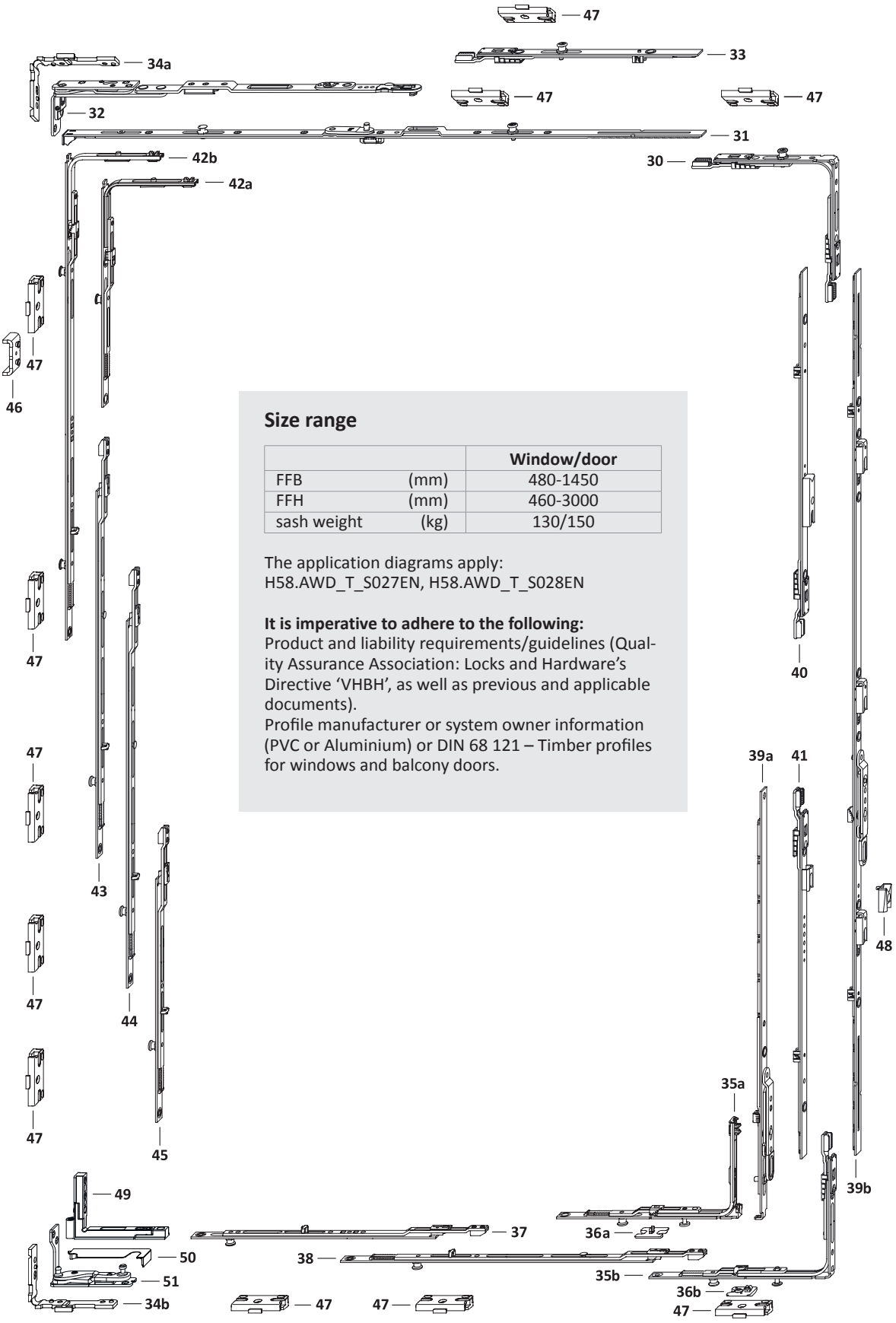
surface TS

backset 15 mm

Hardware set configuration	
General	Locking-points distance 700
Stay side	two-piece stay ax 24+
Bottom	double cam SB R-RS
Locking side	mishandl. device on gear
Hinge side	corner drive BS sz 1+2 2RS

hardware layout slave sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+



Size range

		Window/door
FFB	(mm)	480-1450
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

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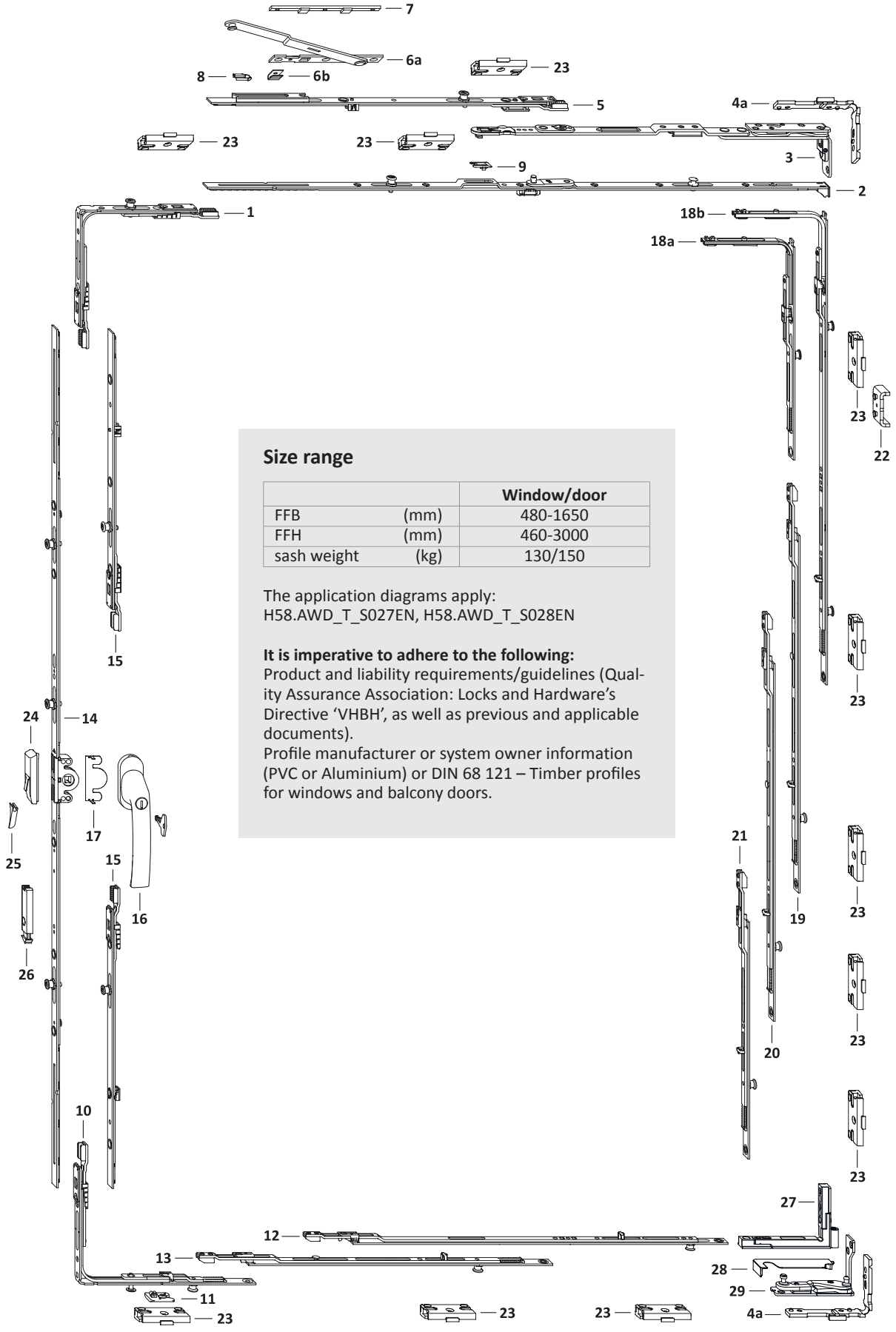

Size range

		Window/door
FFB	(mm)	480-1650
FFH	(mm)	460-3000
sash weight	(kg)	130/150

The application diagrams apply:
H58.AWD_T_S027EN, H58.AWD_T_S028EN

It is imperative to adhere to the following:
Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).
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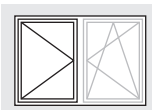
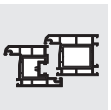
List of fittings slave sash

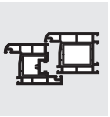
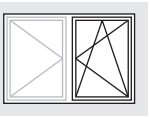
2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+





Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
						In the main sash	47
30	corn.drive VSO 1RS	TEUL4010- ...	1	480–1450			1
31	stay sash part AF AX sz 1	TSSV4000- ...	1	480– 680			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681– 750			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751– 850			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851–1050			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051–1450			1
32	stay arm AX sz 1	Ref. PDB, TSAV41	1	480– 680			
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681– 850			
	stay arm AX sz 4	Ref. PDB, TSAV44		851–1050			
	stay arm AX sz 5	Ref. PDB, TSAV45		1051–1450			
33	linkage KK/AF sz 1 1RS	TZKK1010- ...	1	1251–1450			1
34	crt. accessories AX	Ref. PDB, TMZV41	1	480–1450			
35a	locking part VSU/K 56+ 1S 1RS	TEVR1340- ...	1	480–1450	460– 800		1
35b	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480–1450	801–3000		1
36a	run-up plate FH KRL56	Ref. PDB, TRAL01	1	480–1450	460– 800		
36b	run up block AF 13 mm 13	TFFH0080- ...	1	480–1450	801–3000		
37	extension sz 1+ 1RS	TVSO0200- ...	1	480– 500			1
	extension sz 2+ 1RS	TVSL0320- ...		501– 680			1
	extension sz 3+ 1RS	TVSL0330- ...		681– 850			1
	extension sz 2+ 1RS	TVSL0320- ...		851–1050			1
	extension sz 2+ 1RS	TVSL0320- ...		1051–1250			1
	extension sz 4+ 1RS	TVSL0340- ...		1251–1450			1
38	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851–1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051–1450			1
39a	sec.sash gear 16 sz 30	TGKS0010- ...	1		460– 600	230– 300	
	sec.sash gear 16 AF 60/G300	TGKS4030- ...			601– 700	300– 350	
39b	sec.sash gear 16 AF sz 70 1SB	TGMS4030- ...	1		701– 800	350– 400	
	sec.sash gear 16 AF sz 80 1SB	TGMS4040- ...			801–1200	400– 600	
	sec.sash gear 16 AF 120 2SB 70	TGMS4120- ...			1201–1600	600– 800	
	sec.sash gear 16 AF 160 2SB 70	TGMS4130- ...			1601–2000	800–1000	
	sec.sash gear 16 AF 200 3SB 70	TGMS4100- ...			2001–3000	1000–1500	
40	linkage AF sz 1 1SB-RS	TZKS1020- ...	1		2401–2800		
	linkage AF sz 2 1SB-RS	TZKS1030- ...			2801–3000		
41	linkage AF sz 1 1SB-VSU	TZKS1060- ...	1		2401–2800		
	linkage AF sz 2 1SB-VSU	TZKS1070- ...			2801–3000		
42a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460– 800		1
42b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801–1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201–3000		2
43	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401–1600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601–3000		1
44	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001–2400		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401–2600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601–3000		1
45	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801–3000		1
46	anti-lift device	Ref. PDB, TFAH	1		460–3000		
47	striker plate S-RS	Ref. PDB, TRSK					
on request							
48	striker snapper AF A0767	TRST0100- ...	1		1601–3000		

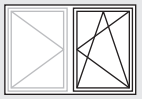
Hinge side turning points					
Pos.	Description	Part number		required as per sash weight	
		surface TS	RAL7037	130 kg	150 kg
49	corner hinge AX	Ref. PDB, TBEB41		1	1
50	cover cap AX EL	Ref. PDB, TKEL41		1	1
51	bottom hinge AX	Ref. PDB, TBEV41		1	1

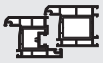



Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Number of frame parts / Pos.
							23
1	corn.drive VSO 1RS	TEUL4010- ...	1	480 – 1650			1
2	stay sash part AF AX sz 1	TSSV4000- ...	1	480 – 680			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		681 – 750			
	stay sash part AF AX 2+3 1RS	TSSV0310- ...		751 – 850			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		851 – 1050			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1051 – 1250			1
	stay sash part AF AX sz 4 1RS	TSSV0320- ...		1251 – 1450			1
	stay sash part AF AX sz 5 1RS	TSSV0330- ...		1451 – 1650			1
3	stay arm AX sz 1	Ref. PDB, TSAV41	1	480 – 680			
	stay arm AX sz 2+3	Ref. PDB, TSAV42		681 – 850			
	stay arm AX sz 4	Ref. PDB, TSAV44		851 – 1050			
	stay arm AX sz 5	Ref. PDB, TSAV45		1051 – 1250			
	stay arm AX sz 4	Ref. PDB, TSAV44		1251 – 1450			
	stay arm AX sz 5	Ref. PDB, TSAV45		1451 – 1650			
4	crt. accessories AX	Ref. PDB, TMZV41	1	480 – 1650			
5	linkage additional stay 1RS	TZOK1010- ...	1	1251 – 1650			1
6	additional stay	Ref. PDB, TSZS	1	1251 – 1650			
7	packer Z	Ref. PDB, FRUP01	1	1251 – 1650			
8	tilt restr. additional stay ..	889008	1	1251 – 1650			
9	tilt restrictor V-V sz 2-4 ..	TFKB0040- ...	1	681 – 1050	460 – 900		
	tilt restrictor V-V sz 5 ..	TFKB0050- ...		1051 – 1250	460 – 900		
10	corn.drive AF VSU/K 56+ 1S 1RS	TEUL5030- ...	1	480 – 1650			1
11	run up block AF 13 mm 13	TFFH0080- ...	1	480 – 1650			
12	extension sz 1+ 1RS	TVSO0200- ...	1	480 – 500			1
	extension sz 2+ 1RS	TVSL0320- ...		501 – 680			1
	extension sz 3+ 1RS	TVSL0330- ...		681 – 850			1
	extension sz 2+ 1RS	TVSL0320- ...		851 – 1050			1
	extension sz 2+ 1RS	TVSL0320- ...		1051 – 1250			1
	extension sz 4+ 1RS	TVSL0340- ...		1251 – 1450			1
	extension sz 6+ 1RS	TVSL0360- ...		1451 – 1650			1
13	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1	851 – 1050			1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...		1051 – 1650			1
14	gear 15 AF sz 20	TGMK4010- ...	1		460 – 600	230 – 300	
	gear 15 AF sz 60	TGMK4020- ...			601 – 700	300 – 350	
	gear 15 AF sz 70 1RS	TGMK4030- ...			701 – 800	350 – 400	
	gear 15 AF sz 80 1RS	TGMK4040- ...			801 – 1200	400 – 600	
	gear 15 AF sz 120 2RS 70	TGMK4160- ...			1201 – 1600	600 – 800	
	gear 15 AF sz 160 2RS 70	TGMK4170- ...			1601 – 2000	800 – 1000	
	gear 15 AF sz 200 3RS 70	TGMK4110- ...			2001 – 3000	1000 – 1500	
15	linkage KK/AF sz 1 1RS	TZKK1010- ...	2		2401 – 2800		
	linkage KK/AF sz 2 1RS	TZKK1020- ...			2801 – 3000		
16	handle Globe lockable 100Nm	Ref.access. ZHGA100	1		460 – 3000		
17	anti-drill guard E	TGBS0010- ...	1		460 – 3000		
18a	corn.drive BSO/K3+ 1RS	TEUL2400- ...	1		460 – 800		1
18b	corn.drive BS/K3 sz 1+ 2RS	TEUL2380- ...	1		801 – 1200		2
	corn.drive BS/K3 sz 2+ 2RS	TEUL2390- ...			1201 – 3000		2
19	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		1401 – 1600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			1601 – 3000		1
20	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2001 – 2400		1
	linkage BS/FH sz 2+ 1RS	TZBS0190- ...			2401 – 2600		1
	linkage BS/FH sz 3+ 1RS 70	TZBS0300- ...			2601 – 3000		1
21	linkage BS/FH sz 1+ 1RS	TZBS0180- ...	1		2801 – 3000		1
22	anti-lift device	Ref. PDB, TFAH	1		460 – 3000		
23	striker plate S-RS	Ref. PDB, TRSK					
on request							
24	mishandling device	TFBS0010- ...	1				
25	pressure piece	Ref. PDB, TFFD	1				
26	snapper rh.	TFST0021- ...	1		1601 – 3000		
	snapper lh.	TFST0022- ...			1601 – 3000		

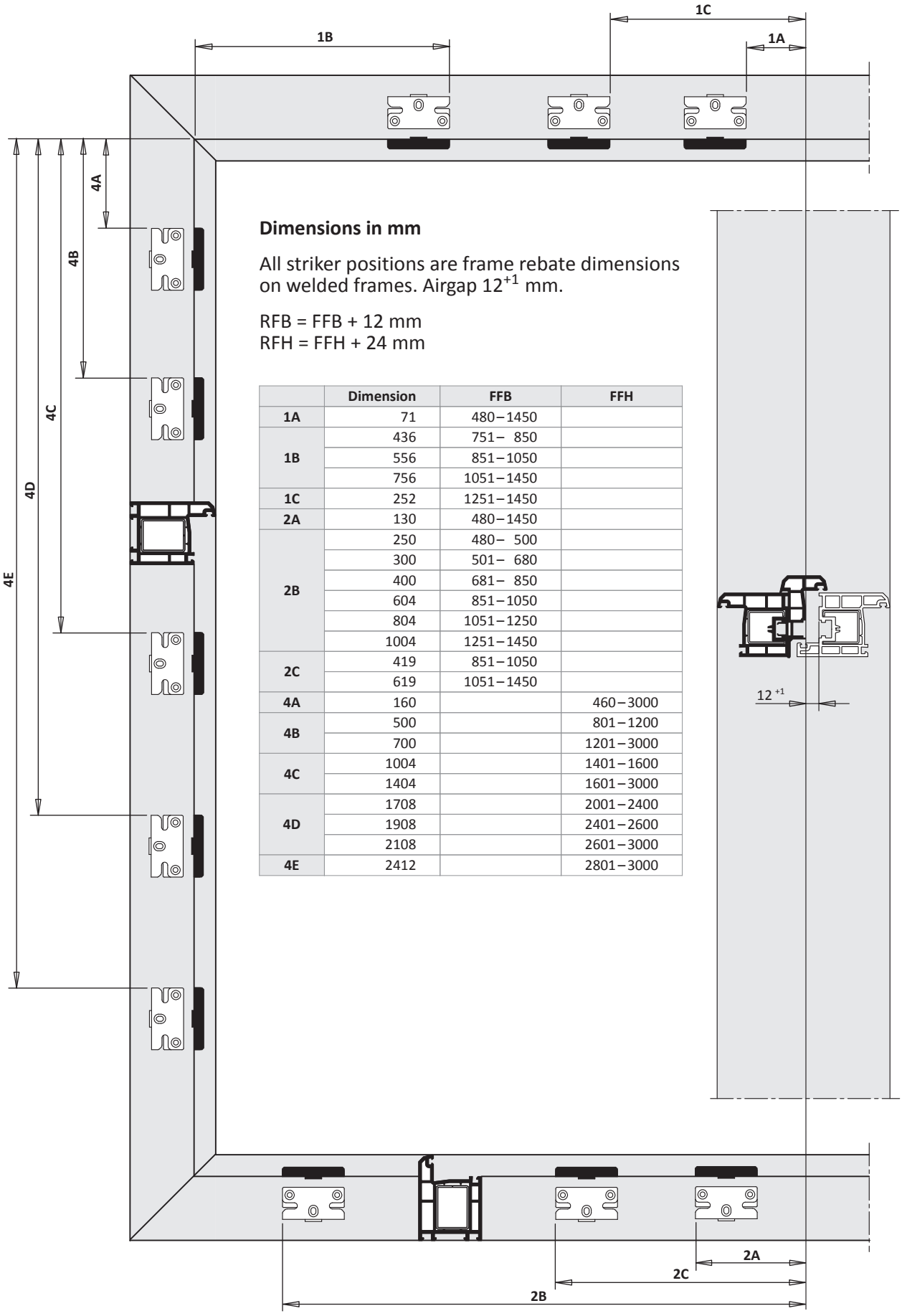
List of fittings main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+





Hinge side turning points					
Pos.	**Description**	**Part number**		**required as per sash weight**	
		surface TS	RAL7037	130 kg	150 kg
27	corner hinge AX	Ref. PDB, TBEB41		1	1
28	cover cap AX EL	Ref. PDB, TKEL41		1	1
29	bottom hinge AX	Ref. PDB, TBEV41		1	1



Dimensions in mm

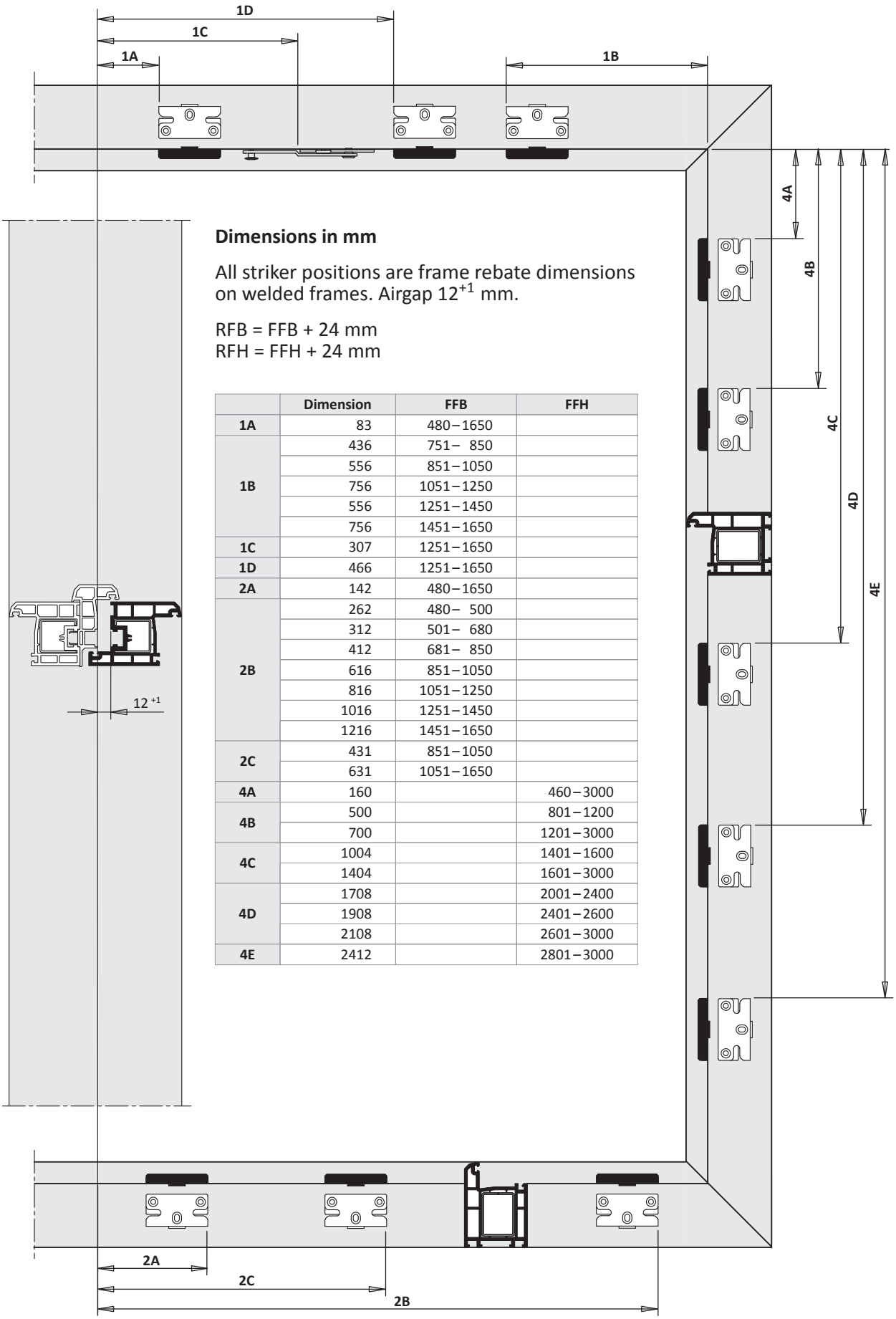
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	71	480–1450	
1B	436	751– 850	
	556	851–1050	
	756	1051–1450	
1C	252	1251–1450	
2A	130	480–1450	
2B	250	480– 500	
	300	501– 680	
	400	681– 850	
	604	851–1050	
	804	1051–1250	
	1004	1251–1450	
2C	419	851–1050	
	619	1051–1450	
4A	160		460–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

Frame dimensions main sash

2-sash square tilt-turn/turn DS 16
PVC GM Hinge side axxent 24+



Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

	Dimension	FFB	FFH
1A	83	480–1650	
1B	436	751– 850	
	556	851–1050	
	756	1051–1250	
	556	1251–1450	
	756	1451–1650	
1C	307	1251–1650	
1D	466	1251–1650	
2A	142	480–1650	
2B	262	480– 500	
	312	501– 680	
	412	681– 850	
	616	851–1050	
	816	1051–1250	
	1016	1251–1450	
	1216	1451–1650	
2C	431	851–1050	
	631	1051–1650	
4A	160		460–3000
4B	500		801–1200
	700		1201–3000
4C	1004		1401–1600
	1404		1601–3000
4D	1708		2001–2400
	1908		2401–2600
	2108		2601–3000
4E	2412		2801–3000

Basic security

1-sash square tilt	H48.TAFKFM0S041EN	10 - 3

RC1

1-sash square tilt	H48.TAFKFM1S023EN	10 - 7

TITAN AF

Installation instructions

GS

1-sash square tilt

PVC

basic security

centre handle pos. (variable)

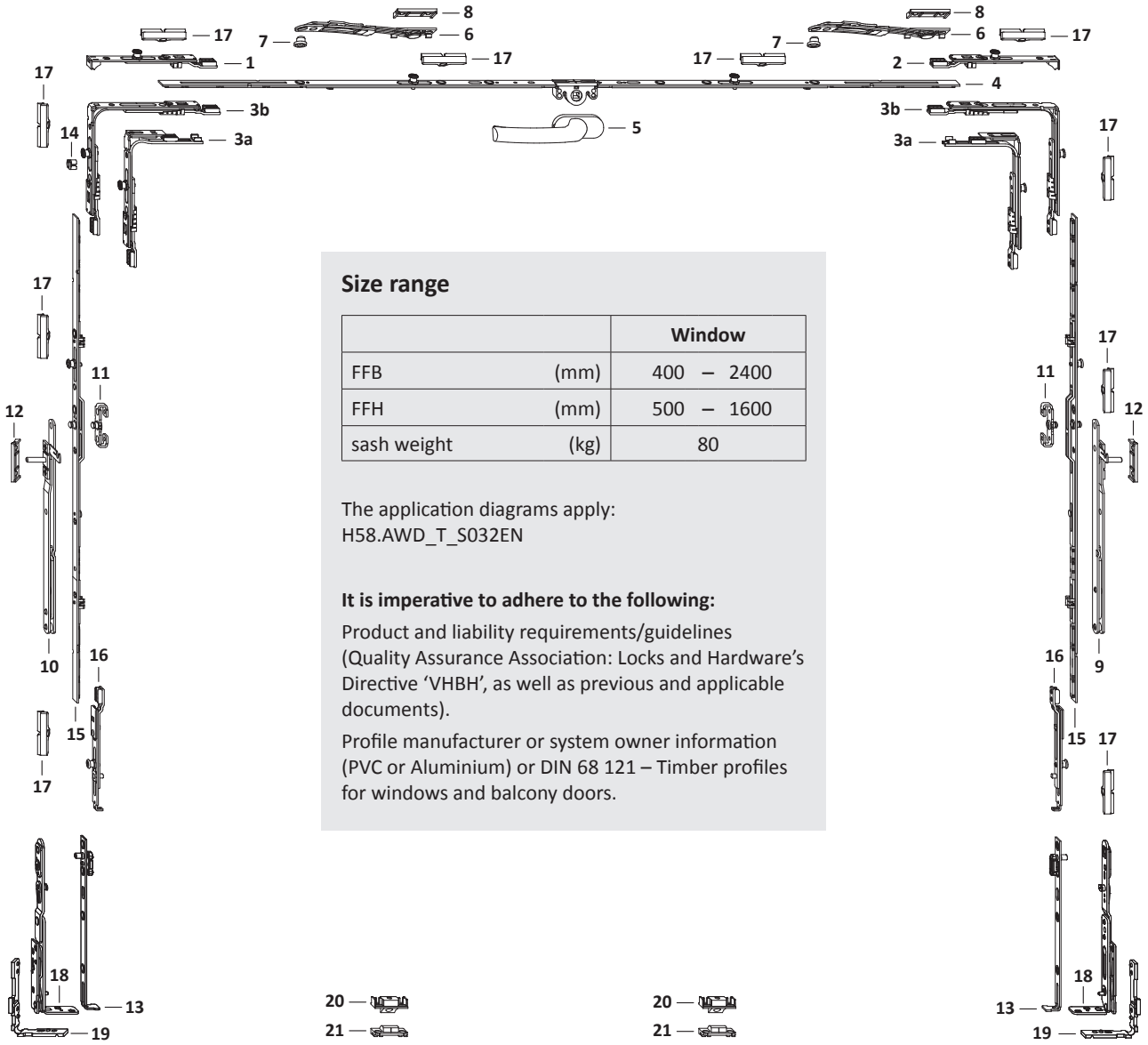
hinge side axxent 24+

surface TS

backset 15 mm

Hardware layout

1-sash square tilt
PVC GM hinge side axxent 24+



Size range

		Window
FFB	(mm)	400 – 2400
FFH	(mm)	500 – 1600
sash weight	(kg)	80

The application diagrams apply:
H58.AWD_T_S032EN

It is imperative to adhere to the following:

Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).

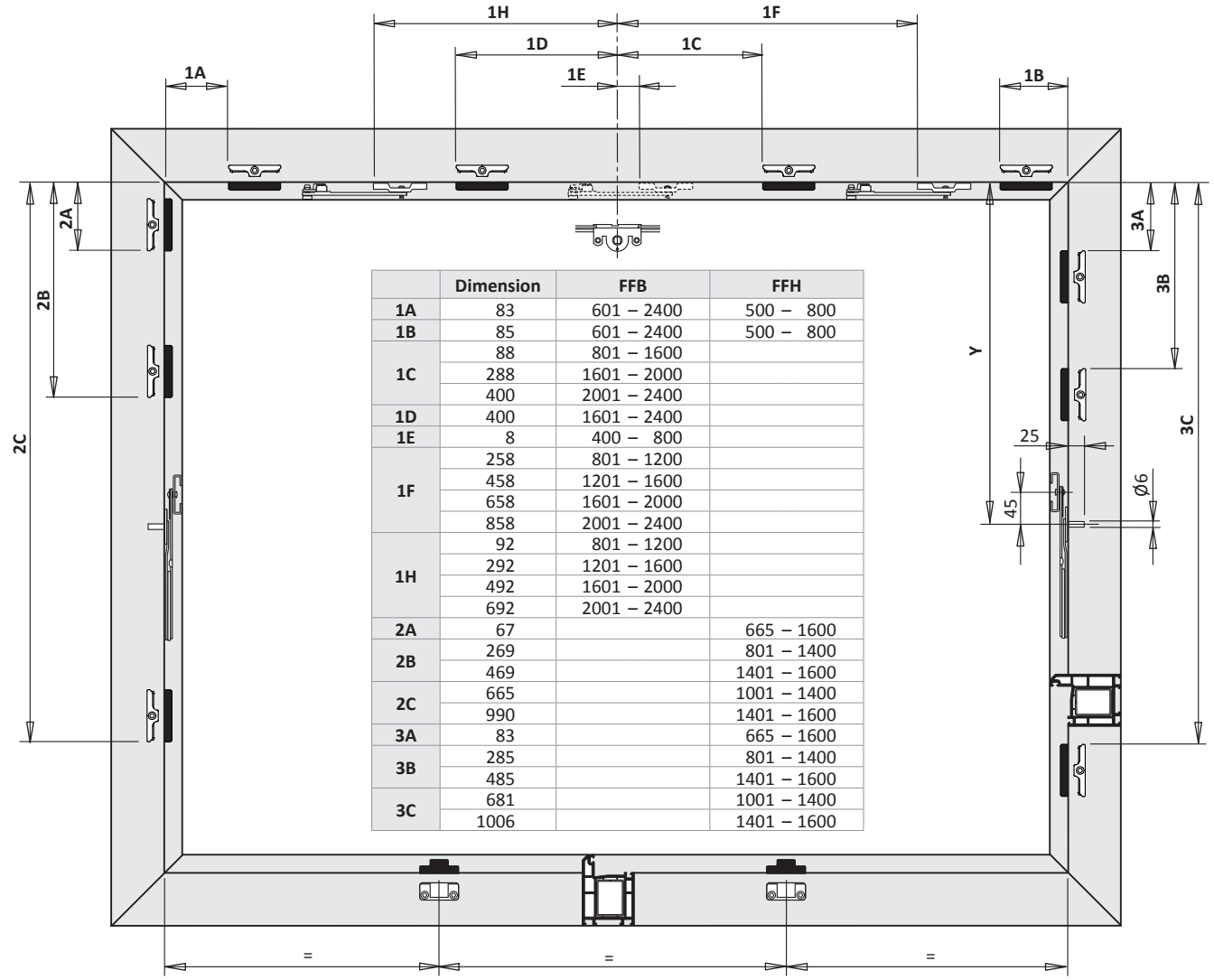
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Frame Parts Pos. 17
1	locking bolt AF VS 180° 1RS	TESC2020–...	1	601 – 2400	500 – 800		1
2	locking bolt AF tilt 90° 1RS	TESC2010–...	1	601 – 2400	500 – 800		1
3a	corn.drive AF VSO narrow 1RS	TEUL4020–...	2	400 – 600	665 – 1600		2
3b	corn.drive VSO 1RS	TEUL4010–...		601 – 2400	801 – 1600		2
4	gear 15 AF sz 60	TGMK4020–...	1	400 – 800		200 – 400	
	gear 15 AF sz 80 1RS	TGMK4040–...		801 – 1200		400 – 600	1
	gear 15 AF sz 120 1RS	TGMK4050–...		1201 – 1600		600 – 800	1
	gear 15 AF sz 160 2RS 70	TGMK4170–...		1601 – 2000		800 – 1000	2
	gear 15 AF sz 200 2RS	TGMK4080–...		2001 – 2400		1000 – 1200	2
5	handle Globe	ref. EBS, ZHGS	1	400 – 2400			
6	telescopic tilt only stay	TSKF0020–...	1	400 – 800			
			2	801 – 2400			
7	telescopic tilt only stay	TFZB0050–...	1	400 – 800			
			2	801 – 2400			
8	packer RB/FPS A....	ref. PDB, FRUP02	1	400 – 800			
			2	801 – 2400			
9	tilt only safety stay 25 sz.1 rh.	ASFP0031–...	1	400 – 600	665 – 1400		
	tilt only safety stay 25 sz.2 rh.	ASFP0041–...			1401 – 1600		
	tilt only safety stay 25 sz.1 rh.	ASFP0031–...		601 – 2400	500 – 600		
	tilt only safety stay 25 sz.2 rh.	ASFP0041–...			601 – 800		
	tilt only safety stay 25 sz.1 rh.	ASFP0031–...			801 – 1400		
	tilt only safety stay 25 sz.2 rh.	ASFP0041–...			1401 – 1600		
10	tilt only safety stay 25 sz.1 lh.	ASFP0032–...	1	400 – 600	665 – 1400		
	tilt only safety stay 25 sz.2 lh.	ASFP0042–...			1401 – 1600		
	tilt only safety stay 25 sz.1 lh.	ASFP0032–...		601 – 2400	500 – 600		
	tilt only safety stay 25 sz.2 lh.	ASFP0042–...			601 – 800		
	tilt only safety stay 25 sz.1 lh.	ASFP0032–...			801 – 1400		
	tilt only safety stay 25 sz.2 lh.	ASFP0042–...			1401 – 1600		
11	fixing claw UGRP	ZFFP0010–...	2		500 – 800		
12	packer RB/FPS A....	ref. PDB, FRUP02	2		500 – 1600		
13	stay sash part DF V-V 34	TSSV3020–...	2		500 – 1600		
14	travel restrictor	TFHB0010–...	1		665 – 1600		
15	linkage FPS/ZZ 1RS (200 mm above + 340 mm below cutting)	TZZZ0040–...	2		801 – 1000		2
	linkage FPS/ZZ 1RS (200 mm above + 325,5 mm below cutting)				1001 – 1400		
	linkage FPS/ZZ 1RS (200 mm below cutting)				1401 – 1600		
16	locking bolt AF VSU/K 1RS	TESC3020–...	2		1001 – 1600		2
17	striker plate S 56 A....	ref. PDB, TRSM					

Hinge side turning points					
Pos.	Description	Part number	QTY - FFB		
		surface TS	400 – 800	801 – 1800	1801 – 2400
18	stay arm AX DF	ref. PDB, TSAV46	2	2	2
19	accessories AX	ref. PDB, TMZV41	1	1	1
20	sash part MV	ref. PDB, ZFMV01		1	2
21	frame part MV	ref. PDB, ZRZM01		1	2

Frame dimensions

1-sash square tilt
PVC GM hinge side axxent 24+



	Dimension	FFB	FFH
1A	83	601 – 2400	500 – 800
1B	85	601 – 2400	500 – 800
1C	88	801 – 1600	
	288	1601 – 2000	
	400	2001 – 2400	
1D	400	1601 – 2400	
1E	8	400 – 800	
1F	258	801 – 1200	
	458	1201 – 1600	
	658	1601 – 2000	
	858	2001 – 2400	
1H	92	801 – 1200	
	292	1201 – 1600	
	492	1601 – 2000	
	692	2001 – 2400	
2A	67		665 – 1600
2B	269		801 – 1400
	469		1401 – 1600
2C	665		1001 – 1400
	990		1401 – 1600
3A	83		665 – 1600
3B	285		801 – 1400
	485		1401 – 1600
3C	681		1001 – 1400
	1006		1401 – 1600

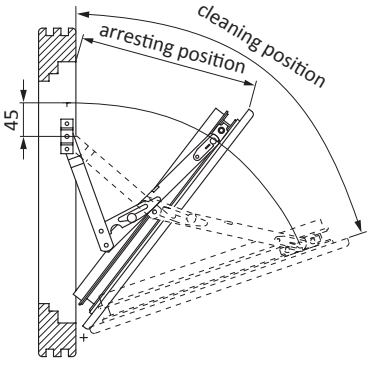
Dimensions in mm

All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

10

80 kg	Dimension	FFB	FFH	ASFP	Opening width – arresting position	Opening angle – cleaning position
Y	272	400 – 600	665 – 800	sz 1	298 – 275	44° – 33°
	402		801 – 1400	sz 1	352 – 263	43° – 18°
	602		1401 – 1600	sz 2	304 – 280	36° – 29°
	120	601 – 2400	500 – 600	sz 1	235 – 228	45° – 36°
	120		601 – 800	sz 2	213 – 205	58° – 41°
	402		801 – 1400	sz 1	352 – 263	43° – 18°
	602		1401 – 1600	sz 2	304 – 280	36° – 29°



TITAN AF

Anschlaganleitung

RC1

1-flg. Rechteck Kipp

Kunststoff

RC1

Griffsitz mittig (variabel)

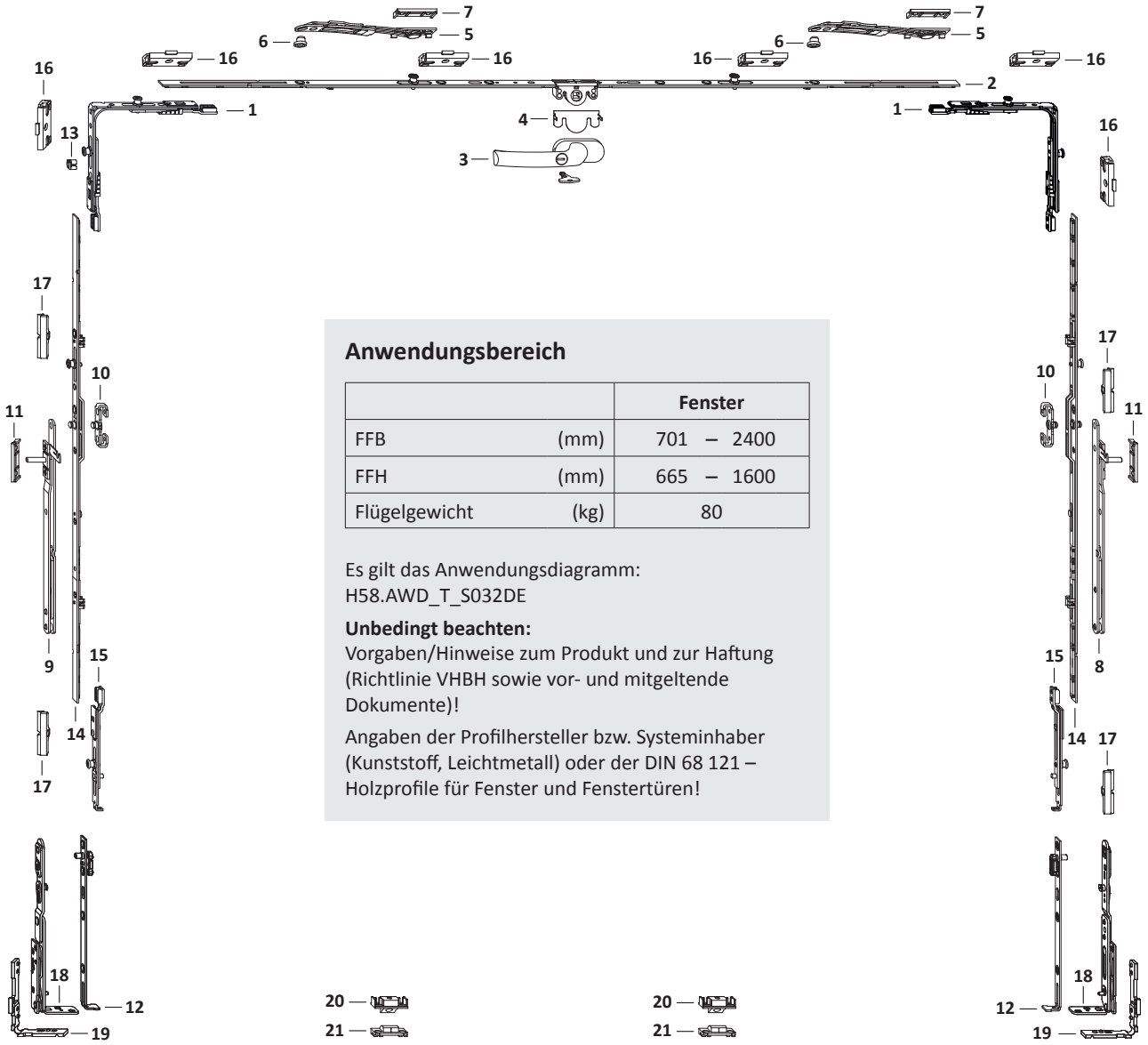
Bandseite axxent 24+

Oberfläche TS

Dornmaß 15 mm

Beschlagübersicht

1-flg. Rechteck Kipp
KF GM Bandseite axxent 24+



Anwendungsbereich

		Fenster
FFB	(mm)	701 – 2400
FFH	(mm)	665 – 1600
Flügelgewicht	(kg)	80

Es gilt das Anwendungsdiagramm:
H58.AWD_T_S032DE

Unbedingt beachten:
Vorgaben/Hinweise zum Produkt und zur Haftung (Richtlinie VHBH sowie vor- und mitgeltende Dokumente)!

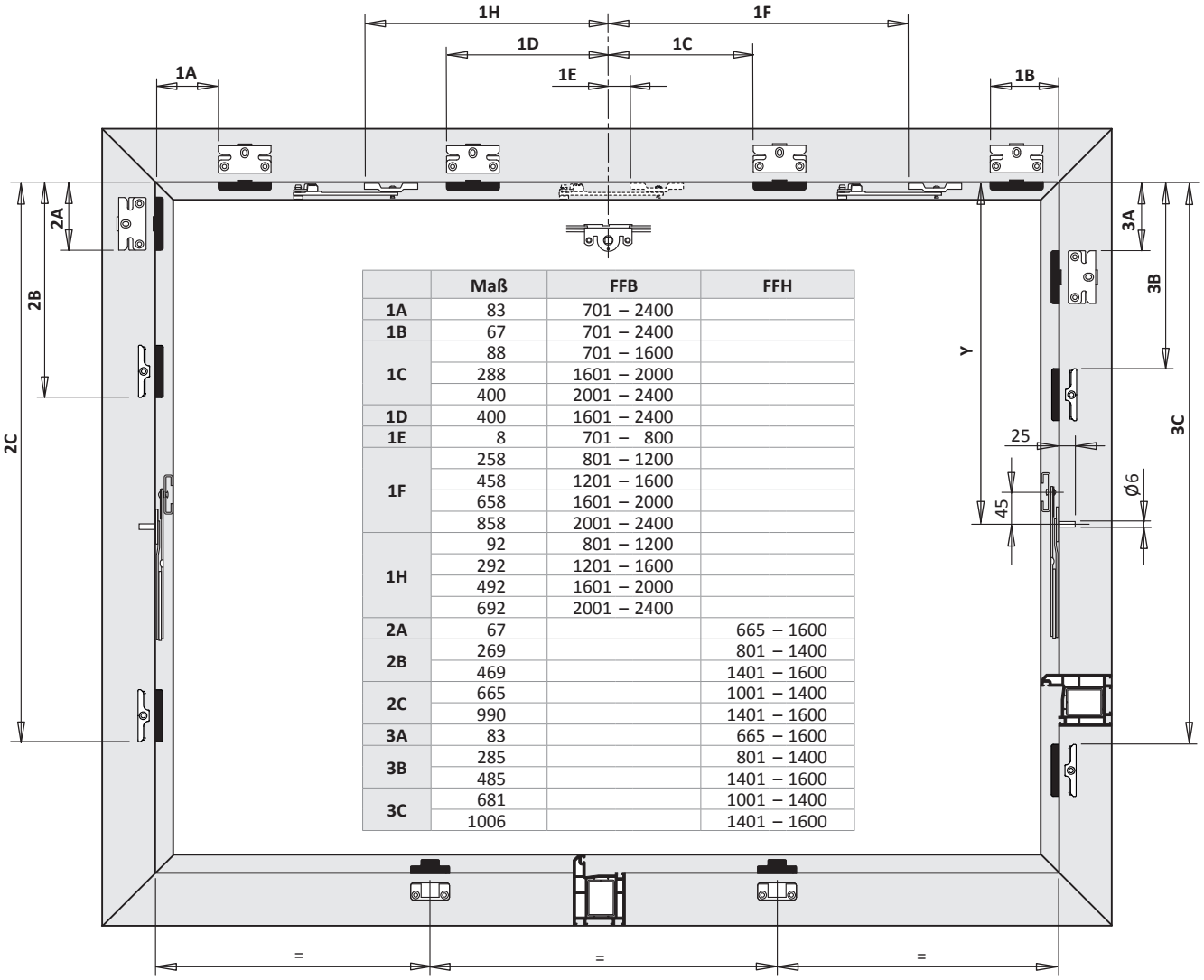
Angaben der Profilhersteller bzw. Systeminhaber (Kunststoff, Leichtmetall) oder der DIN 68 121 – Holzprofile für Fenster und Fenstertüren!

Pos.	Materialkurztext	Materialnummer	St.	FFB	FFH	Maß G	Anzahl Rahmenteile	
							Pos. 16	Pos. 17
1	Umlenkung AF VSO 2RS A0055	TEUL4070–...	2	701 – 2400			4	
2	Getriebe 15 AF Gr.70 1RS	TGMK4030–...	1	701 – 800		350 – 400	1	
	Getriebe 15 AF Gr.80 1RS	TGMK4040–...		801 – 1200		400 – 600	1	
	Getriebe 15 AF Gr.120 1RS	TGMK4050–...		1201 – 1600		600 – 800	1	
	Getriebe 15 AF Gr.160 2RS 70	TGMK4170–...		1601 – 2000		800 – 1000	2	
	Getriebe 15 AF Gr.200 2RS	TGMK4080–...		2001 – 2400		1000 – 1200	2	
3	Hebel Globe abs. 100Nm	s. EBS, ZHGA100	1	701 – 2400				
4	Anbohrschutz E	TGBS0010–...	1	701 – 2400				
5	Kippflügelschere Teleskop	TSKF0020–...	1	701 – 800				
			2	801 – 2400				
6	Verschlussbolzen f. Ringsenkung	TFZB0050–...	1	701 – 800				
			2	801 – 2400				
7	Unterlegplatte RB/FPS A....	s. PDB, FRUP02	1	701 – 800				
			2	801 – 2400				
8	Fang-Putz-Schere 25 Gr.1 o.Kr. re.	ASFP0031–...	1	701 – 2400	665 – 1400			
	Fang-Putz-Schere 25 Gr.2 o.Kr. re.	ASFP0041–...			1401 – 1600			
9	Fang-Putz-Schere 25 Gr.1 o.Kr. li.	ASFP0032–...	1	701 – 2400	665 – 1400			
	Fang-Putz-Schere 25 Gr.2 o.Kr. li.	ASFP0042–...			1401 – 1600			
10	Befestigungskralle UGRP	ZFFP0010–...	2		665 – 800			
11	Unterlegplatte RB/FPS A....	s. PDB, FRUP02	2		665 – 1600			
12	Scherenstulp DF V-V 34	TSSV3020–...	2		665 – 1600			
13	Hubbegrenzer	TFHB0010–...	1		665 – 1600			
14	Zwischenstück FPS/ZZ 1RS (200 mm oben + 340 mm unten ablängen)	TZZZ0040–...	2		801 – 1000			2
	Zwischenstück FPS/ZZ 1RS (200 mm oben + 325,5 mm unten ablängen)				1001 – 1400			
	Zwischenstück FPS/ZZ 1RS (200 mm unten ablängen)				1401 – 1600			
15	Schließer AF VSU/K 1RS	TESC3020–...	2		1001 – 1600			2
16	Schließblech S-RS A....	s. PDB, TRSK						
17	Schließblech S 56 A....	s. PDB, TRSM						

Drehpunkte				
Pos.	Materialkurztext	Materialnummer	Anzahl nach FFB	
		Oberfläche TS	701 – 1800	1801 – 2400
18	Scherenarm AX DF	s. PDB, TSAV46	2	2
19	Krt. Zubehör AX	s. PDB, TMZV41	1	1
20	Flügelteil MV	s. PDB, ZFMV01	1	2
21	Rahmenteil MV	s. PDB, ZRZM01	1	2

Blendrahmenmaße

1-flg. Rechteck Kipp
KF GM Bandseite axxent 24+



	Maß	FFB	FFH
1A	83	701 – 2400	
1B	67	701 – 2400	
1C	88	701 – 1600	
	288	1601 – 2000	
	400	2001 – 2400	
1D	400	1601 – 2400	
1E	8	701 – 800	
1F	258	801 – 1200	
	458	1201 – 1600	
	658	1601 – 2000	
	858	2001 – 2400	
1H	92	801 – 1200	
	292	1201 – 1600	
	492	1601 – 2000	
	692	2001 – 2400	
2A	67		665 – 1600
2B	269		801 – 1400
	469		1401 – 1600
2C	665		1001 – 1400
	990		1401 – 1600
3A	83		665 – 1600
3B	285		801 – 1400
	485		1401 – 1600
3C	681		1001 – 1400
	1006		1401 – 1600

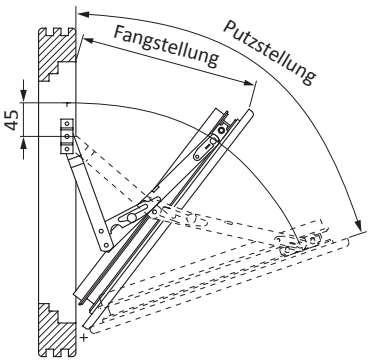
Maßangaben in mm (Nennmaße)

Alle Schließblechpositionen sind Rahmenfalzmaße am geschweißten Blendrahmen. Falzluft 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

10

80 kg	Maß	FFB	FFH	ASFP	Öffnungsweite Fangstellung	Öffnungswinkel Putzstellung
Y	272	701 – 2400	665 – 800	Gr.1	298 – 275	44° – 33°
	402		801 – 1400	Gr.1	352 – 263	43° – 18°
	602		1401 – 1600	Gr.2	304 – 280	36° – 29°



Basic security

1-sash square tilt-turn	H48.TAFKFN0S003EN	11 - 3
2-sash square tilt-turn/turn DS 16	H48.TAFKFN0S004EN	11 - 5

Tilt sash

1-sash square tilt	H48.TAFKFM0S044EN	11 - 9

RC1

1-sash square tilt-turn	H48.TAFKFN1S003EN	11 - 13
2-sash square tilt-turn/turn DS 16	H48.TAFKFN1S004EN	11 - 15

RC2

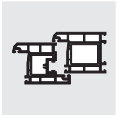
1-sash square tilt-turn	H48.TAFKFN2+S003EN	11 - 19
2-sash square tilt-turn/turn DS 16	H48.TAFKFN2+S004EN	11 - 21

RC2 ECO

1-sash square tilt-turn	H48.TAFKFN2S003EN	11 - 25
2-sash square tilt-turn/turn DS 16	H48.TAFKFN2S004EN	11 - 27

TITAN AF

Installation instructions


GS

AEROCONTROL

1-sash square tilt-turn

PVC

basic security

fixed handle position and centre handle pos. (variable)

hinge side axxent 24+

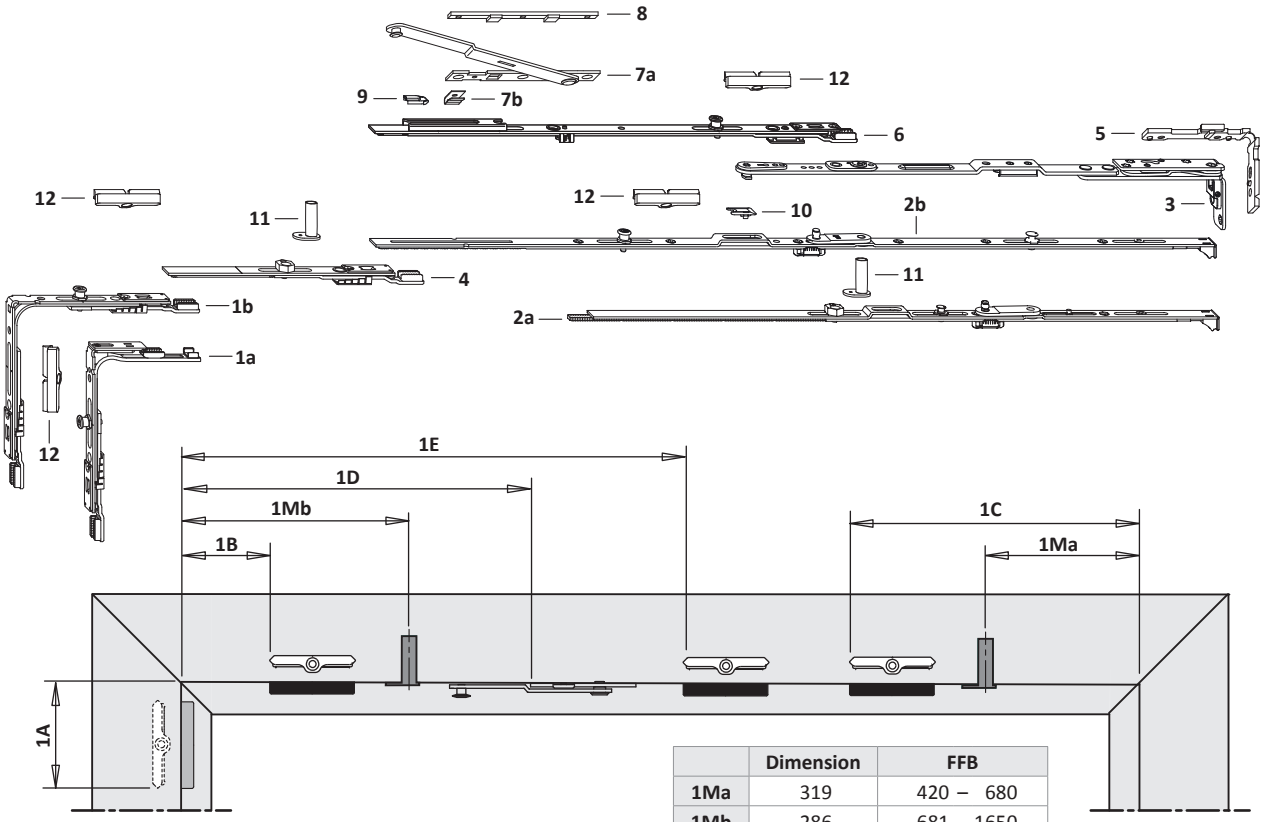
surface TS

All further necessary information on the AEROCONTROL programme (opening and closure monitoring) like magnetic switches, assembly and connection instructions and the extensive accessory programme can be taken from our separate product catalogue DRIVE - AEROCONTROL.

AEROCONTROL

1-sash square tilt-turn
PVC hinge side axxent 24+

FFB 420 – 1650



	Dimension	FFB
1Ma	319	420 – 680
1Mb	286	681 – 1650
1A	67	420 – 520
1B	83	521 – 1650
1C	436	881 – 1050
	556	1051 – 1250
	436	1251 – 1450
	556	1451 – 1650
1D	507	1251 – 1650
1E	666	1251 – 1650

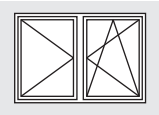
Dimensions in mm
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

Pos.	Description	Part number	QTY	FFB	FFH G - fixed	FFH G - centre	Frame Parts Pos. 12
1a	corn.drive AF VSO narrow 1RS	TEUL4020–...	1	420 – 520	450 – 3000	460 – 3000	1
1b	corn.drive VSO 1RS	TEUL4010–...		521 – 1650	450 – 3000	460 – 3000	1
2a	stay sash part AF AX UE sz 1	TSSV4010–...	1	420 – 680			
2b	stay sash part AF AX sz 1	TSSV4000–...		681 – 880			
	stay sash part AF AX sz 2+3 1RS	TSSV0310–...		881 – 1050			1
	stay sash part AF AX sz 4 1RS	TSSV0320–...		1051 – 1250			1
	stay sash part AF AX sz 2+3 1RS	TSSV0310–...		1251 – 1450			1
	stay sash part AF AX sz 4 1RS	TSSV0320–...		1451 – 1650			1
3	stay arm AX sz 1	ref. PDB, TSAV41	1	420 – 880			
	stay arm AX sz 2+3	ref. PDB, TSAV42		881 – 1050			
	stay arm AX sz 4	ref. PDB, TSAV44		1051 – 1250			
	stay arm AX sz 2+3	ref. PDB, TSAV42		1251 – 1450			
	stay arm AX sz 4	ref. PDB, TSAV44		1451 – 1650			
4	linkage AF UE sz 1 1M	TZZS0160–...	1	681 – 1650			
5	accessories AX	ref. PDB, TMZV41	1	420 – 1650			
6	linkage additional stay 1RS	TZOK1010–...	1	1251 – 1650			1
7	additional stay	ref. PDB, TSZS	1	1251 – 1650			
8	packer Z A....	ref. PDB, FRUP01	1	1251 – 1650			
9	tilt restr. additional stay	889008	1	1251 – 1650			
10	tilt restrictor V-V sz 2-4	TFKB0040–...	1	881 – 1650	450 – 900	460 – 900	
11	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	420 – 1650			
12	striker plate S 56 A....	ref. PDB, TRSM					

TITAN AF

Installation instructions



GS

AEROCONTROL

2-sash square tilt-turn/turn DS 16

PVC

basic security

fixed handle position and centre handle pos. (variable)

hinge side axxent 24+

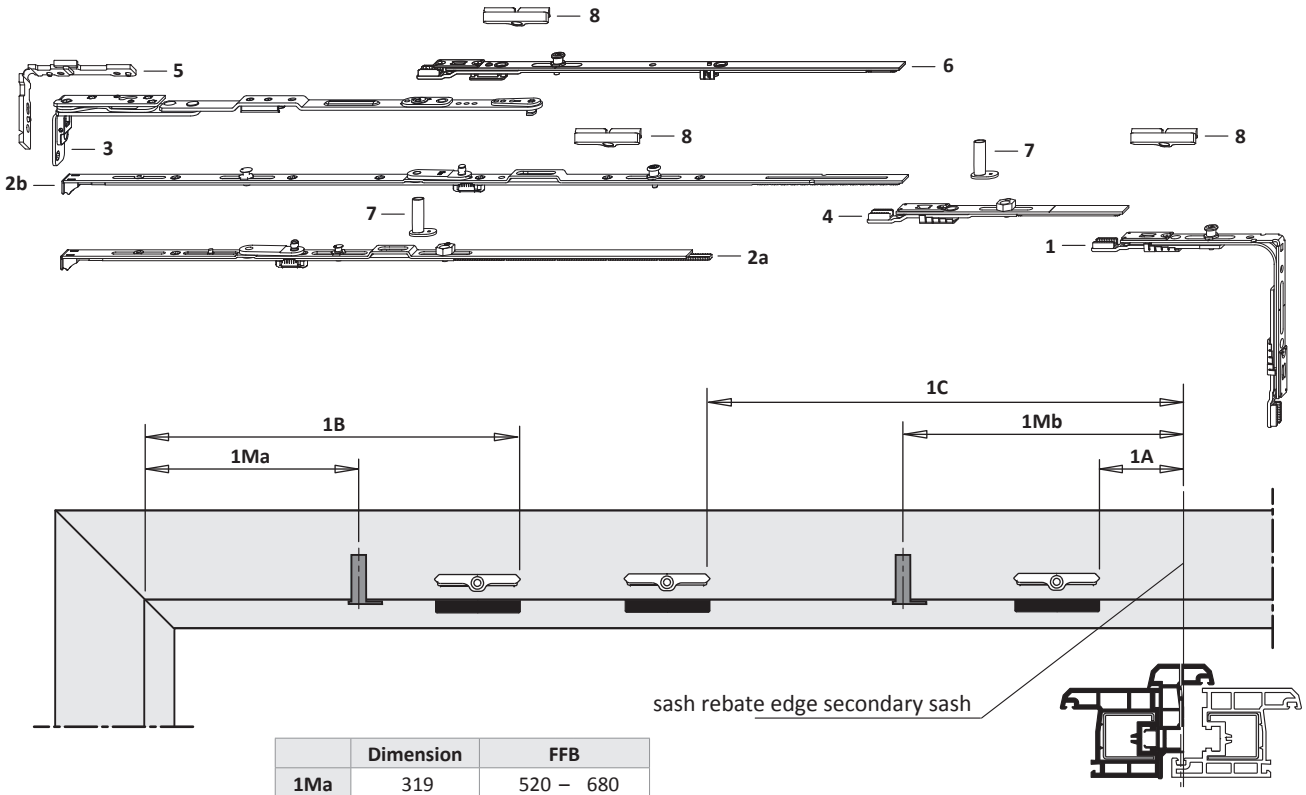
surface TS

All further necessary information on the AEROCONTROL programme (opening and closure monitoring) like magnetic switches, assembly and connection instructions and the extensive accessory programme can be taken from our separate product catalogue DRIVE - AEROCONTROL.

AEROCONTROL slave sash

2-sash square tilt-turn/turn DS 16
PVC hinge side axxent 24+

FFB 520 – 1450



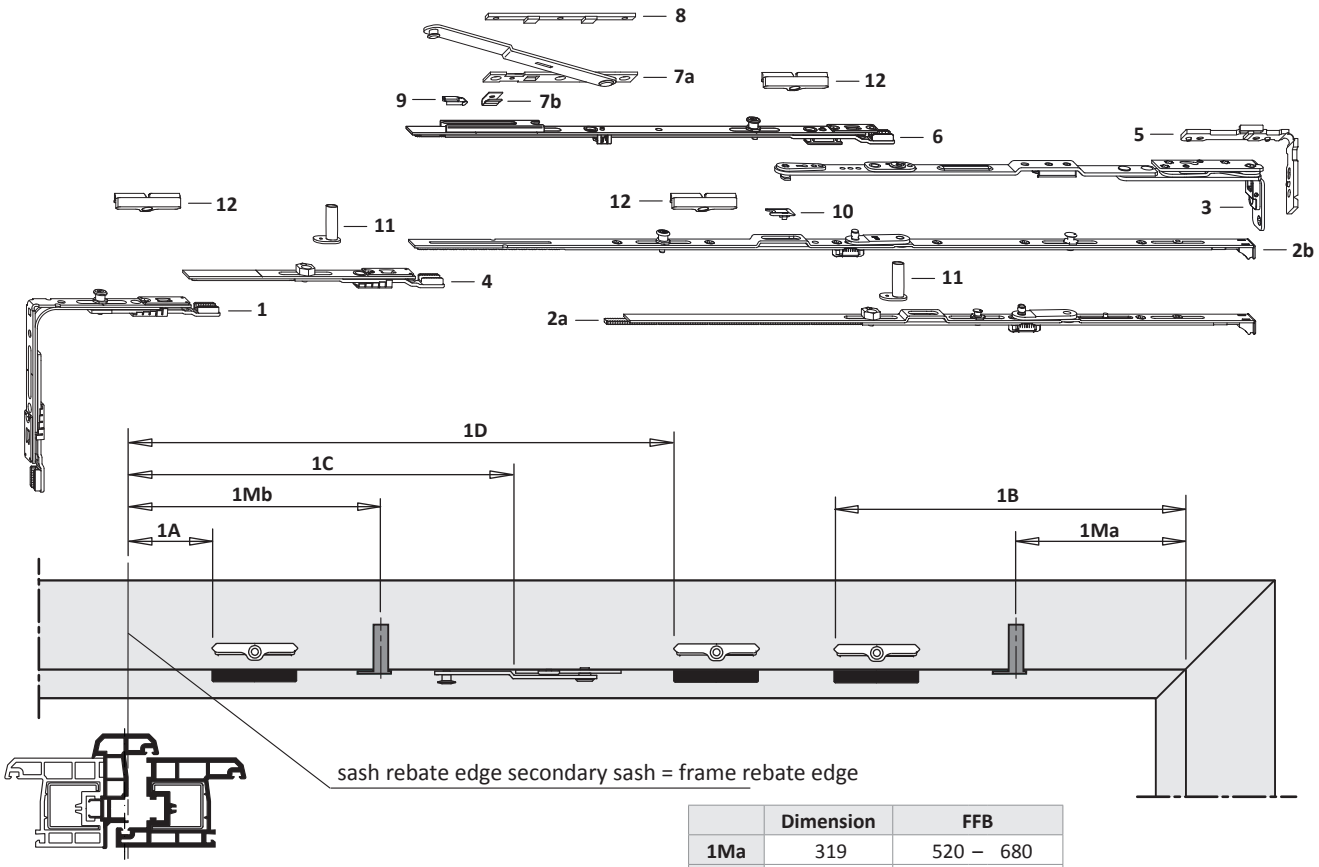
	Dimension	FFB
1Ma	319	520 – 680
1Mb	274	681 – 1450
1A	71	520 – 1450
1B	436	881 – 1050
	556	1051 – 1250
	436	1251 – 1450
1C	654	1251 – 1450

Dimensions in mm
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

Pos.	Description	Part number	QTY	FFB	FFH G - fixed	FFH G - centre	Frame Parts Pos. 8
1	corn.drive VSO 1RS	TEUL4010–...	1	520 – 1450	450 – 3000	460 – 3000	1
2a	stay sash part AF AX UE sz 1	TSSV4010–...	1	520 – 680			
2b	stay sash part AF AX sz 1	TSSV4000–...		681 – 880			
	stay sash part AF AX sz 2+3 1RS	TSSV0310–...		881 – 1050			1
	stay sash part AF AX sz 4 1RS	TSSV0320–...		1051 – 1250			1
	stay sash part AF AX sz 2+3 1RS	TSSV0310–...		1251 – 1450			1
3	stay arm AX sz 1	ref. PDB, TSAV41	1	520 – 880			
	stay arm AX sz 2+3	ref. PDB, TSAV42		881 – 1050			
	stay arm AX sz 4	ref. PDB, TSAV44		1051 – 1250			
	stay arm AX sz 2+3	ref. PDB, TSAV42		1251 – 1450			
4	linkage AF UE sz 1 1M	TZZS0160–...	1	681 – 1450			
5	accessories AX	ref. PDB, TMZV41	1	520 – 1450			
6	linkage KK/AF sz 2 1RS	TZKK1020–...	1	1251 – 1450			1
7	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	520 – 1450			
8	striker plate S 56 A....	ref. PDB, TRSM					

FFB 520 – 1650



	Dimension	FFB
1Ma	319	520 – 680
1Mb	286	681 – 1650
1A	83	520 – 1650
1B	436	881 – 1050
	556	1051 – 1250
	436	1251 – 1450
	556	1451 – 1650
1C	507	1251 – 1650
1D	666	1251 – 1650

Dimensions in mm
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

Pos.	Description	Part number	QTY	FFB	FFH G - fixed	FFH G - centre	Frame Parts Pos. 12
1	corn.drive VSO 1RS	TEUL4010–...	1	520 – 1650	450 – 3000	460 – 3000	1
2a	stay sash part AF AX UE sz 1	TSSV4010–...	1	520 – 680			
2b	stay sash part AF AX sz 1	TSSV4000–...		681 – 880			
	stay sash part AF AX sz 2+3 1RS	TSSV0310–...		881 – 1050			1
	stay sash part AF AX sz 4 1RS	TSSV0320–...		1051 – 1250			1
	stay sash part AF AX sz 2+3 1RS	TSSV0310–...		1251 – 1450			1
	stay sash part AF AX sz 4 1RS	TSSV0320–...		1451 – 1650			1
3	stay arm AX sz 1	ref. PDB, TSAV41	1	520 – 880			
	stay arm AX sz 2+3	ref. PDB, TSAV42		881 – 1050			
	stay arm AX sz 4	ref. PDB, TSAV44		1051 – 1250			
	stay arm AX sz 2+3	ref. PDB, TSAV42		1251 – 1450			
	stay arm AX sz 4	ref. PDB, TSAV44		1451 – 1650			
4	linkage AF UE sz 1 1M	TZZS0160–...	1	681 – 1650			
5	accessories AX	ref. PDB, TMZV41	1	520 – 1650			
6	linkage additional stay 1RS	TZOK1010–...	1	1251 – 1650			1
7	additional stay	ref. PDB, TSZS	1	1251 – 1650			
8	packer Z A....	ref. PDB, FRUP01	1	1251 – 1650			
9	tilt restr. additional stay	889008	1	1251 – 1650			
10	tilt restrictor V-V sz 2-4	TFKB0040–...	1	881 – 1650	450 – 900	460 – 900	
11	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	520 – 1650			
12	striker plate S 56 A....	ref. PDB, TRSM					

TITAN AF

Installation instructions

GS

AEROCONTROL

1-sash square tilt

PVC

basic security

centre handle pos. (variable)

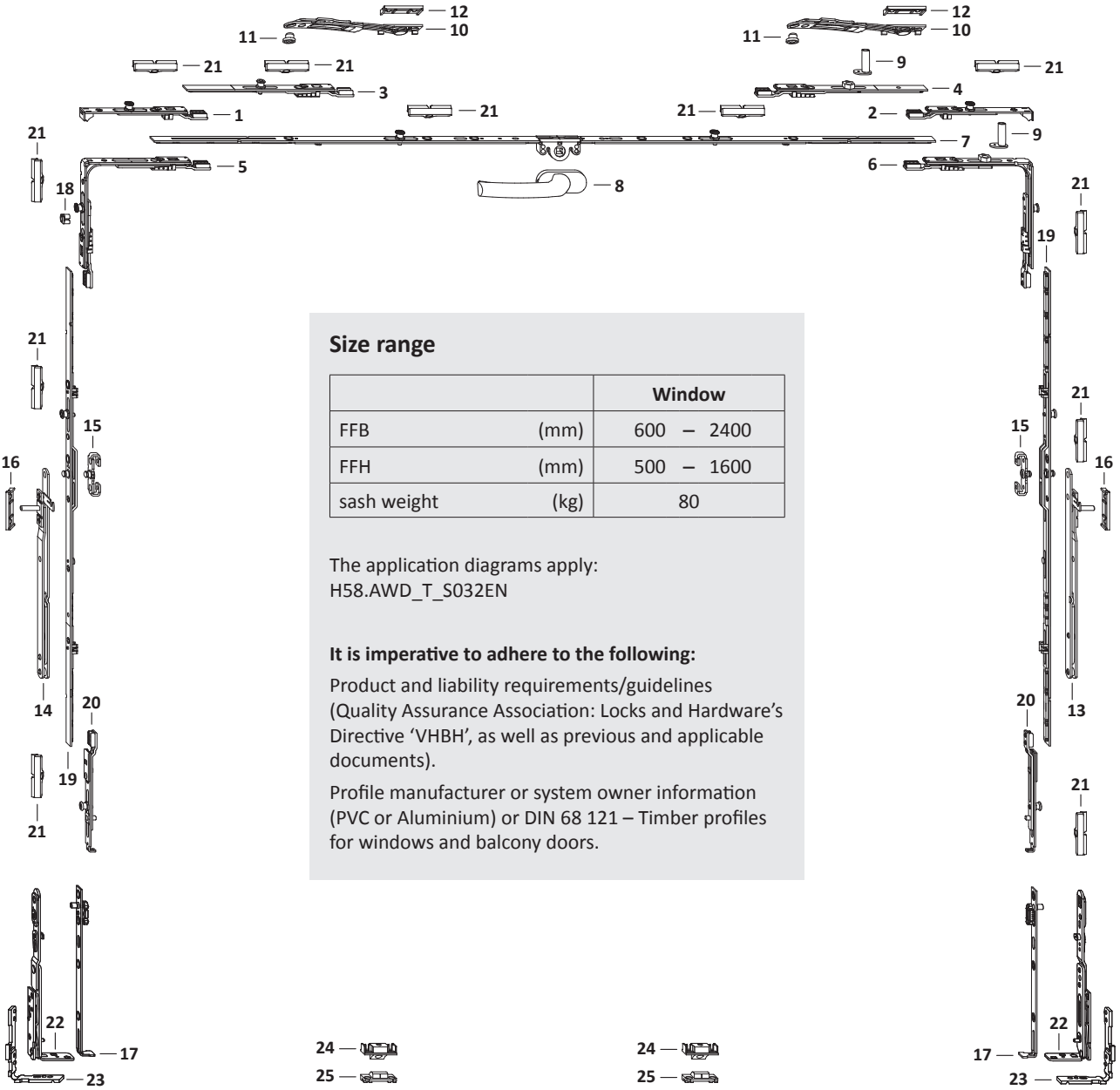
hinge side axxent 24+

surface TS

backset 15 mm

Hardware layout AEROCONTROL

1-sash square tilt
PVC GM hinge side axxent 24+



Size range

		Window
FFB	(mm)	600 – 2400
FFH	(mm)	500 – 1600
sash weight	(kg)	80

The application diagrams apply:
H58.AWD_T_S032EN

It is imperative to adhere to the following:

Product and liability requirements/guidelines (Quality Assurance Association: Locks and Hardware's Directive 'VHBH', as well as previous and applicable documents).

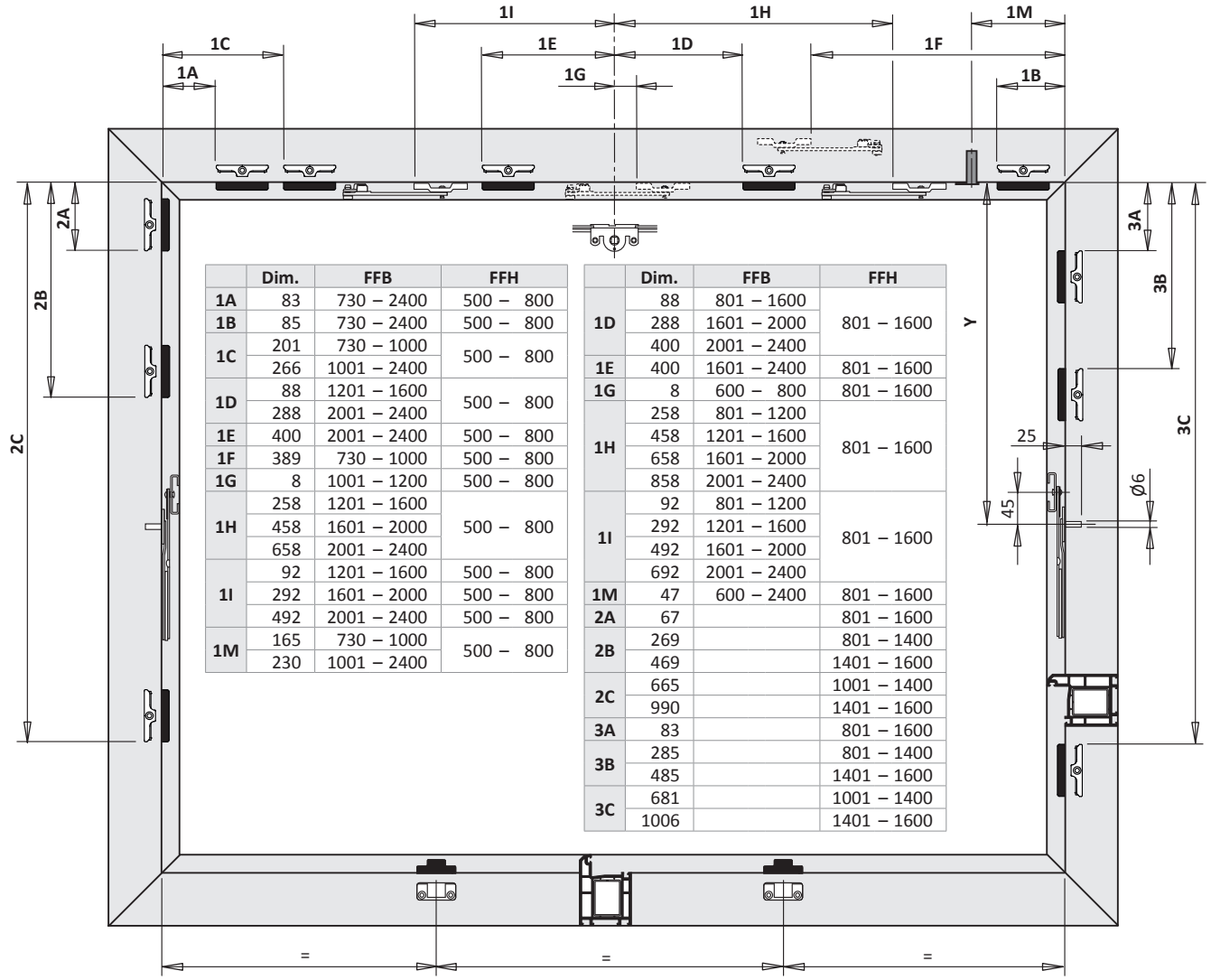
Profile manufacturer or system owner information (PVC or Aluminium) or DIN 68 121 – Timber profiles for windows and balcony doors.

Pos.	Description	Part number	QTY	FFB	FFH	Dimension G	Frame Parts Pos. 21
1	locking bolt AF VS 180° 1RS	TESC2020–...	1	730 – 2400	500 – 800		1
2	locking bolt AF tilt 90° 1RS	TESC2010–...	1	730 – 2400	500 – 800		1
3	linkage AF sz.1 1RS/A (cut 65 mm)	TZZS0200–...	1	730 – 1000	500 – 800		1
	linkage AF sz.1 1RS/A			1001 – 2400			
4	linkage AF UE sz 1 1M (cut 65 mm)	TZZS0160–...	1	730 – 1000	500 – 800		
	linkage AF UE sz 1 1M			1001 – 2400			
5	corn.drive VSO 1RS	TEUL4010–...	1	600 – 2400	801 – 1600		1
6	corn.drive AF VSO UE 1M 1RS	TEUL4100–...	1	600 – 2400	801 – 1600		
7	gear 15 AF sz 20	TGMK4010–...	1	730 – 1000	500 – 800	365 – 500	
	gear 15 AF sz 60	TGMK4020–...		1001 – 1200		500 – 600	
	gear 15 AF sz 80 1RS	TGMK4040–...		1201 – 1600		600 – 800	1
	gear 15 AF sz 120 1RS	TGMK4050–...		1601 – 2000		800 – 1000	1
	gear 15 AF sz 160 2RS 70	TGMK4170–...		2001 – 2400		1000 – 1200	2
	gear 15 AF sz 60	TGMK4020–...		600 – 800	801 – 1600	300 – 400	
	gear 15 AF sz 80 1RS	TGMK4040–...		801 – 1200		400 – 600	1
	gear 15 AF sz 120 1RS	TGMK4050–...		1201 – 1600		600 – 800	1
	gear 15 AF sz 160 2RS 70	TGMK4170–...		1601 – 2000		800 – 1000	2
	gear 15 AF sz 200 2RS	TGMK4080–...		2001 – 2400		1000 – 1200	2
8	handle Globe	ref. EBS, ZHGS	1	600 – 2400			
9	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	600 – 2400			
10	telescopic tilt only stay	TSKF0020–...	1	730 – 1200	500 – 800		
			2	1201 – 2400			
			1	600 – 800	801 – 1600		
			2	801 – 2400			
11	telescopic tilt only stay	TFZB0050–...	1	730 – 1200	500 – 800		
			2	1201 – 2400			
			1	600 – 800	801 – 1600		
			2	801 – 2400			
12	packer RB/FPS A....	ref. PDB, FRUP02	1	730 – 1200	500 – 800		
			2	1201 – 2400			
			1	600 – 800	801 – 1600		
			2	801 – 2400			
13	tilt only safety stay 25 sz.1 rh.	ASFP0031–...	1	600 – 2400	500 – 600		
	tilt only safety stay 25 sz.2 rh.	ASFP0041–...			601 – 800		
	tilt only safety stay 25 sz.1 rh.	ASFP0031–...			801 – 1400		
	tilt only safety stay 25 sz.2 rh.	ASFP0041–...			1401 – 1600		
14	tilt only safety stay 25 sz.1 lh.	ASFP0032–...	1	600 – 2400	500 – 600		
	tilt only safety stay 25 sz.2 lh.	ASFP0042–...			601 – 800		
	tilt only safety stay 25 sz.1 lh.	ASFP0032–...			801 – 1400		
	tilt only safety stay 25 sz.2 lh.	ASFP0042–...			1401 – 1600		
15	fixing claw UGRP	ZFFP0010–...	2		500 – 800		
16	packer RB/FPS A....	ref. PDB, FRUP02	2		500 – 1600		
17	stay sash part DF V-V 34	TSSV3020–...	2		500 – 1600		
18	travel restrictor	TFHB0010–...	1		801 – 1600		
19	linkage FPS/ZZ 1RS (200 mm above + 340 mm below cutting)	TZZZ0040–...	2		801 – 1000		2
	linkage FPS/ZZ 1RS (200 mm above + 325,5 mm below cutting)				1001 – 1400		
	linkage FPS/ZZ 1RS (200 mm below cutting)				1401 – 1600		
20	locking bolt AF VSU/K 1RS	TESC3020–...	2		1001 – 1600		2
21	striker plate S 56 A....	ref. PDB, TRSM					

Hinge side turning points					
Pos.	Description	Part number surface TS	QTY - FFB 600 – 800	801 – 1800	1801 – 2400
22	stay arm AX DF	ref. PDB, TSAV46	2	2	2
23	accessories AX	ref. PDB, TMZV41	1	1	1
24	sash part MV	ref. PDB, ZFMV01		1	2
25	frame part MV	ref. PDB, ZRZM01		1	2

Frame dimensions AEROCONTROL

1-sash square tilt
PVC GM hinge side axxent 24+



	Dim.	FFB	FFH
1A	83	730 – 2400	500 – 800
1B	85	730 – 2400	500 – 800
1C	201	730 – 1000	500 – 800
	266	1001 – 2400	
1D	88	1201 – 1600	500 – 800
	288	2001 – 2400	
1E	400	2001 – 2400	500 – 800
1F	389	730 – 1000	500 – 800
1G	8	1001 – 1200	500 – 800
1H	258	1201 – 1600	500 – 800
	458	1601 – 2000	
	658	2001 – 2400	
1I	92	1201 – 1600	500 – 800
	292	1601 – 2000	500 – 800
	492	2001 – 2400	500 – 800
1M	165	730 – 1000	500 – 800
	230	1001 – 2400	

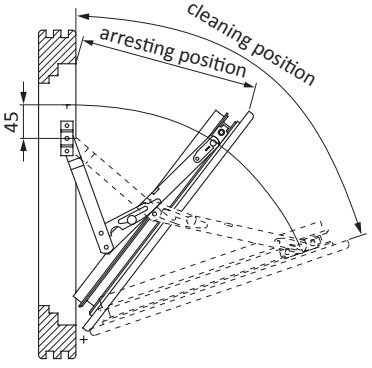
	Dim.	FFB	FFH
1D	88	801 – 1600	801 – 1600
	288	1601 – 2000	
	400	2001 – 2400	
1E	400	1601 – 2400	801 – 1600
1G	8	600 – 800	801 – 1600
1H	258	801 – 1200	801 – 1600
	458	1201 – 1600	
	658	1601 – 2000	
	858	2001 – 2400	
1I	92	801 – 1200	801 – 1600
	292	1201 – 1600	
	492	1601 – 2000	
	692	2001 – 2400	
1M	47	600 – 2400	801 – 1600
2A	67		801 – 1600
2B	269		801 – 1400
	469		1401 – 1600
2C	665		1001 – 1400
	990		1401 – 1600
3A	83		801 – 1600
3B	285		801 – 1400
	485		1401 – 1600
3C	681		1001 – 1400
	1006		1401 – 1600

Dimensions in mm
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

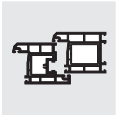
11

80 kg	Dimension	FFB	FFH	ASFP	Opening width – arresting position	Opening angle – cleaning position
Y	120	600 – 2400	500 – 600	Gr.1	235 – 228	45° – 36°
	120		601 – 800	Gr.2	213 – 205	58° – 41°
	402		801 – 1400	Gr.1	352 – 263	43° – 18°
	602		1401 – 1600	Gr.2	304 – 280	36° – 29°



TITAN AF

Installation instructions


RC1

AEROCONTROL

1-sash square tilt-turn

PVC

RC1

fixed handle position and centre handle pos. (variable)

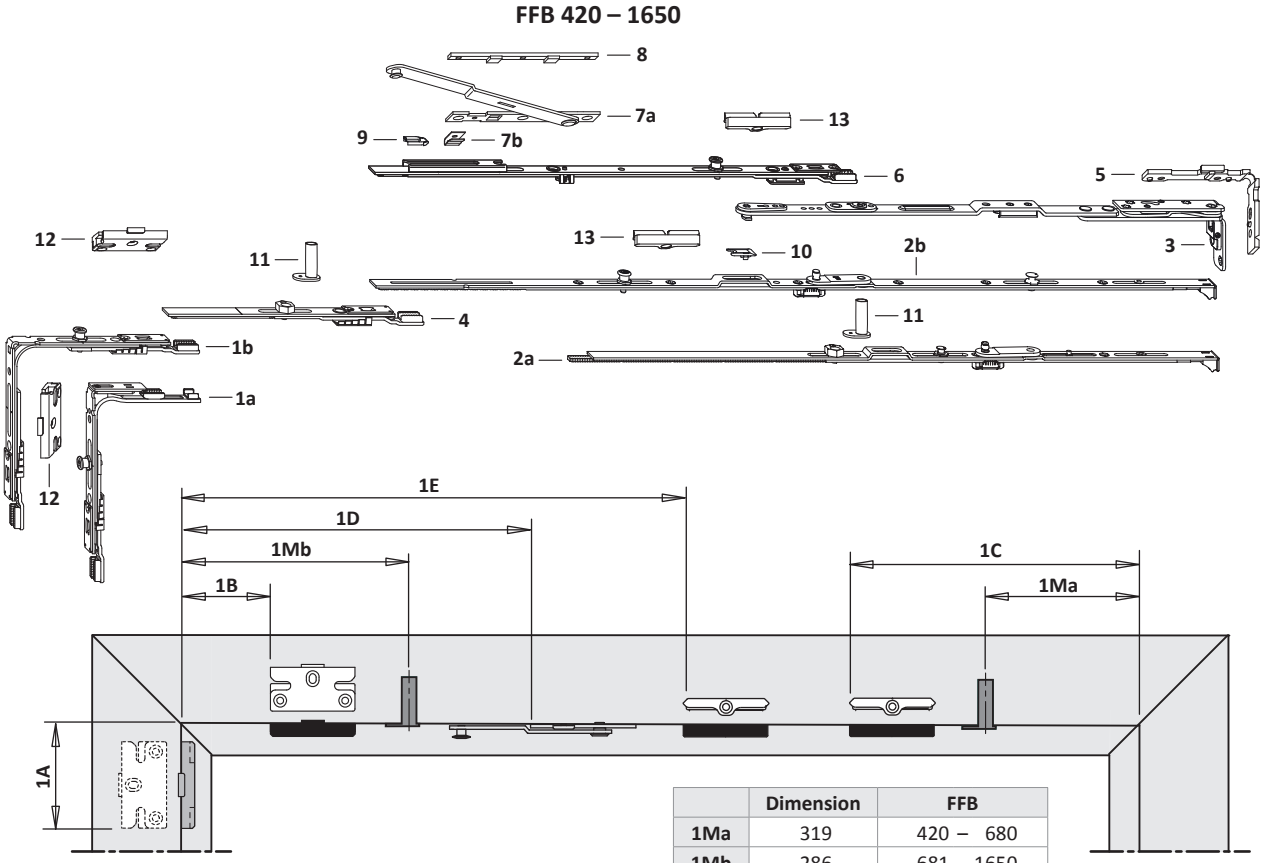
hinge side axxent 24+

surface TS

All further necessary information on the AEROCONTROL programme (opening and closure monitoring) like magnetic switches, assembly and connection instructions and the extensive accessory programme can be taken from our separate product catalogue DRIVE - AEROCONTROL.

AEROCONTROL

1-sash square tilt-turn
PVC hinge side axxent 24+



	Dimension	FFB
1Ma	319	420 – 680
1Mb	286	681 – 1650
1A	67	420 – 520
1B	83	521 – 1650
1C	436	881 – 1050
	556	1051 – 1250
	436	1251 – 1450
	556	1451 – 1650
1D	507	1251 – 1650
1E	666	1251 – 1650

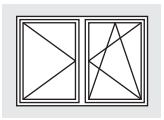
Dimensions in mm
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

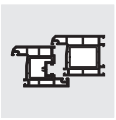
RFB = FFB + 24 mm
RFH = FFH + 24 mm

Pos.	Description	Part number	QTY	FFB	FFH G - fixed	FFH G - centre	Frame Parts Pos. 12	Frame Parts Pos. 13
1a	corn.drive AF VSO narrow 1RS	TEUL4020–...	1	420 – 520	450 – 3000	460 – 3000	1	
1b	corn.drive VSO 1RS	TEUL4010–...		521 – 1650	450 – 3000	460 – 3000	1	
2a	stay sash part AF AX UE sz 1	TSSV4010–...	1	420 – 680				
2b	stay sash part AF AX sz 1	TSSV4000–...		681 – 880				
	stay sash part AF AX sz 2+3 1RS	TSSV0310–...		881 – 1050				1
	stay sash part AF AX sz 4 1RS	TSSV0320–...		1051 – 1250				1
	stay sash part AF AX sz 2+3 1RS	TSSV0310–...		1251 – 1450				1
	stay sash part AF AX sz 4 1RS	TSSV0320–...		1451 – 1650				1
3	stay arm AX sz 1	ref. PDB, TSAV41	1	420 – 880				
	stay arm AX sz 2+3	ref. PDB, TSAV42		881 – 1050				
	stay arm AX sz 4	ref. PDB, TSAV44		1051 – 1250				
	stay arm AX sz 2+3	ref. PDB, TSAV42		1251 – 1450				
	stay arm AX sz 4	ref. PDB, TSAV44		1451 – 1650				
4	linkage AF UE sz 1 1M	TZZS0160–...	1	681 – 1650				
5	accessories AX	ref. PDB, TMZV41	1	420 – 1650				
6	linkage additional stay 1RS	TZOK1010–...	1	1251 – 1650				1
7	additional stay	ref. PDB, TSZS	1	1251 – 1650				
8	packer Z A....	ref. PDB, FRUP01	1	1251 – 1650				
9	tilt restr. additional stay	889008	1	1251 – 1650				
10	tilt restrictor V-V sz 2-4	TFKB0040–...	1	881 – 1650	450 – 900	460 – 900		
11	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	420 – 1650				
12	striker plate S-RS A....	ref. PDB, TRSK						
13	striker plate S 56 A....	ref. PDB, TRSM						

TITAN AF

Installation instructions





RC1

AEROCONTROL

2-sash square tilt-turn/turn DS 16

PVC

RC1

fixed handle position and centre handle pos. (variable)

hinge side axxent 24+

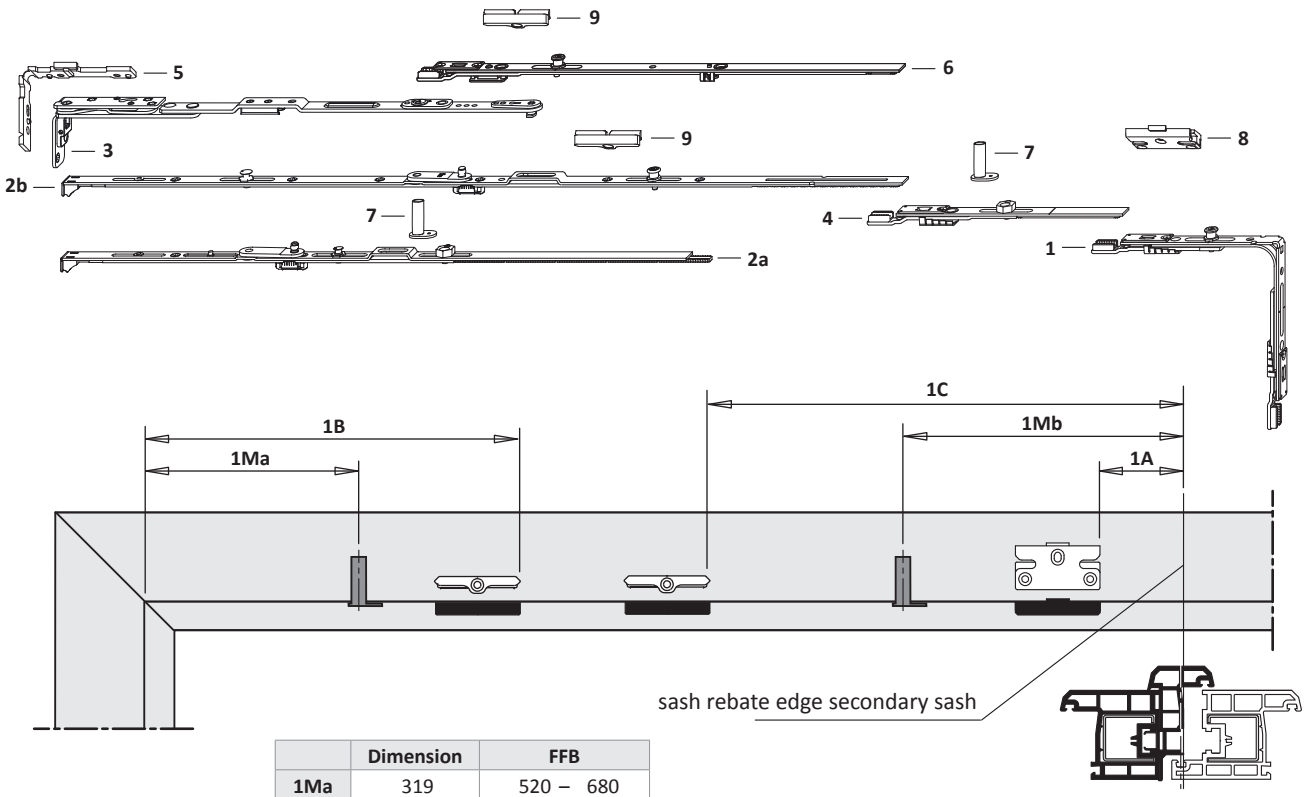
surface TS

All further necessary information on the AEROCONTROL programme (opening and closure monitoring) like magnetic switches, assembly and connection instructions and the extensive accessory programme can be taken from our separate product catalogue DRIVE - AEROCONTROL.

AEROCONTROL slave sash

2-sash square tilt-turn/turn DS 16
PVC hinge side axxent 24+

FFB 520 – 1450



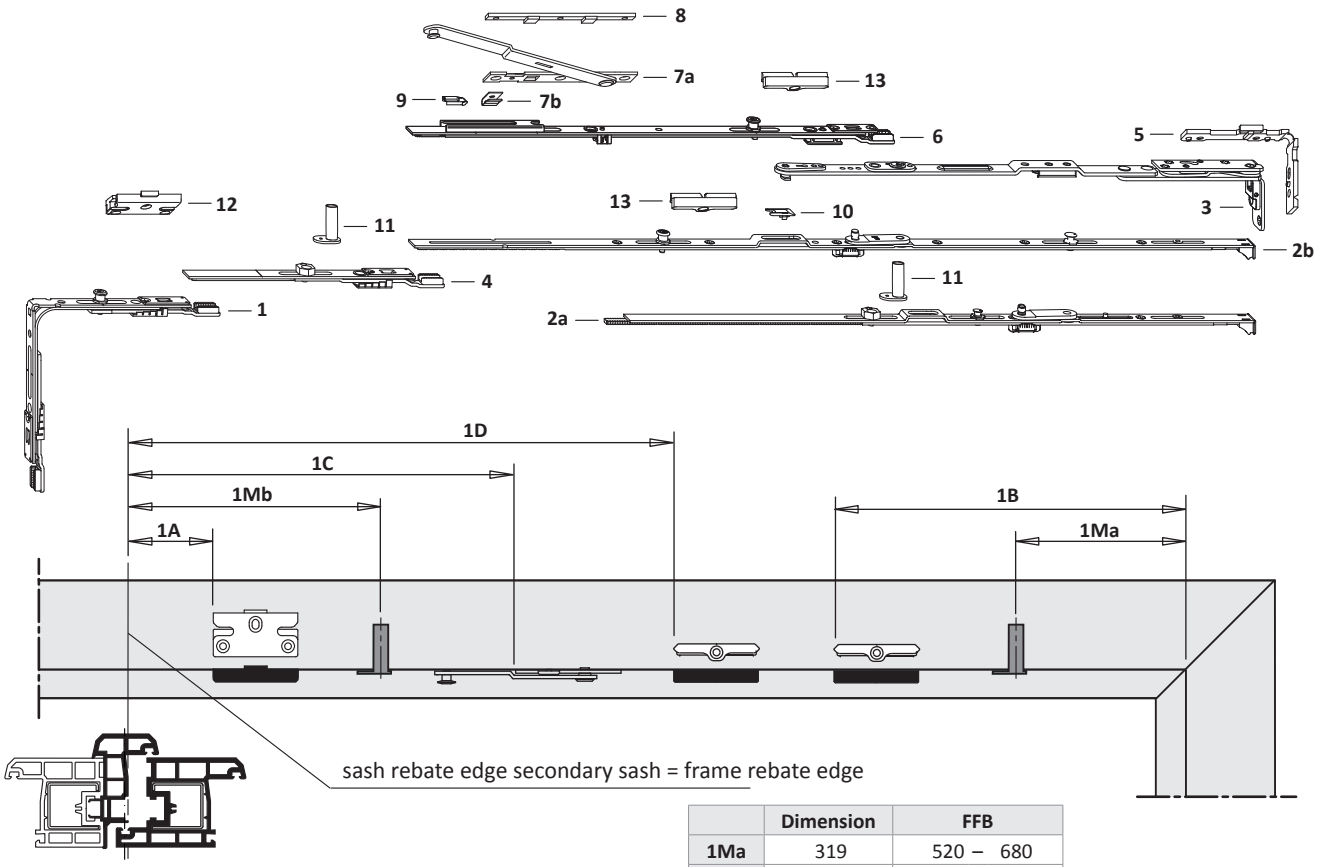
	Dimension	FFB
1Ma	319	520 – 680
1Mb	274	681 – 1450
1A	71	520 – 1450
1B	436	881 – 1050
	556	1051 – 1250
	436	1251 – 1450
1C	654	1251 – 1450

Dimensions in mm
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

Pos.	Description	Part number	QTY	FFB	FFH G - fixed	FFH G - centre	Frame Parts Pos. 8	Frame Parts Pos. 9
1	corn.drive VSO 1RS	TEUL4010–...	1	520 – 1450	450 – 3000	460 – 3000	1	
2a	stay sash part AF AX UE sz 1	TSSV4010–...	1	520 – 680				
2b	stay sash part AF AX sz 1	TSSV4000–...		681 – 880				
	stay sash part AF AX sz 2+3 1RS	TSSV0310–...		881 – 1050				1
	stay sash part AF AX sz 4 1RS	TSSV0320–...		1051 – 1250				1
	stay sash part AF AX sz 2+3 1RS	TSSV0310–...		1251 – 1450				1
3	stay arm AX sz 1	ref. PDB, TSAV41	1	520 – 880				
	stay arm AX sz 2+3	ref. PDB, TSAV42		881 – 1050				
	stay arm AX sz 4	ref. PDB, TSAV44		1051 – 1250				
	stay arm AX sz 2+3	ref. PDB, TSAV42		1251 – 1450				
4	linkage AF UE sz 1 1M	TZZS0160–...	1	681 – 1450				
5	accessories AX	ref. PDB, TMZV41	1	520 – 1450				
6	linkage KK/AF sz 2 1RS	TZKK1020–...	1	1251 – 1450				1
7	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	520 – 1450				
8	striker plate S-RS A....	ref. PDB, TRSK						
9	striker plate S 56 A....	ref. PDB, TRSM						

FFB 520 – 1650



	Dimension	FFB
1Ma	319	520 – 680
1Mb	286	681 – 1650
1A	83	520 – 1650
1B	436	881 – 1050
	556	1051 – 1250
	436	1251 – 1450
	556	1451 – 1650
1C	507	1251 – 1650
1D	666	1251 – 1650

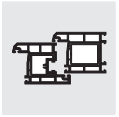
Dimensions in mm
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

Pos.	Description	Part number	QTY	FFB	FFH G - fixed	FFH G - centre	Frame Parts Pos. 12	Frame Parts Pos. 13
1	corn.drive VSO 1RS	TEUL4010–...	1	520 – 1650	450 – 3000	460 – 3000	1	
2a	stay sash part AF AX UE sz 1	TSSV4010–...	1	520 – 680				
2b	stay sash part AF AX sz 1	TSSV4000–...		681 – 880				
	stay sash part AF AX sz 2+3 1RS	TSSV0310–...		881 – 1050				1
	stay sash part AF AX sz 4 1RS	TSSV0320–...		1051 – 1250				1
	stay sash part AF AX sz 2+3 1RS	TSSV0310–...		1251 – 1450				1
	stay sash part AF AX sz 4 1RS	TSSV0320–...		1451 – 1650				1
3	stay arm AX sz 1	ref. PDB, TSAV41	1	520 – 880				
	stay arm AX sz 2+3	ref. PDB, TSAV42		881 – 1050				
	stay arm AX sz 4	ref. PDB, TSAV44		1051 – 1250				
	stay arm AX sz 2+3	ref. PDB, TSAV42		1251 – 1450				
	stay arm AX sz 4	ref. PDB, TSAV44		1451 – 1650				
4	linkage AF UE sz 1 1M	TZZS0160–...	1	681 – 1650				
5	accessories AX	ref. PDB, TMZV41	1	520 – 1650				
6	linkage additional stay 1RS	TZOK1010–...	1	1251 – 1650				1
7	additional stay	ref. PDB, TSZS	1	1251 – 1650				
8	packer Z A....	ref. PDB, FRUP01	1	1251 – 1650				
9	tilt restr. additional stay	889008	1	1251 – 1650				
10	tilt restrictor V-V sz 2-4	TFKB0040–...	1	881 – 1650	450 – 900	460 – 900		
11	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	520 – 1650				
12	striker plate S-RS A....	ref. PDB, TRSK						
13	striker plate S 56 A....	ref. PDB, TRSM						

TITAN AF

Installation instructions



RC2

AEROCONTROL

1-sash square tilt-turn

PVC

RC2

fixed handle position and centre handle pos. (variable)

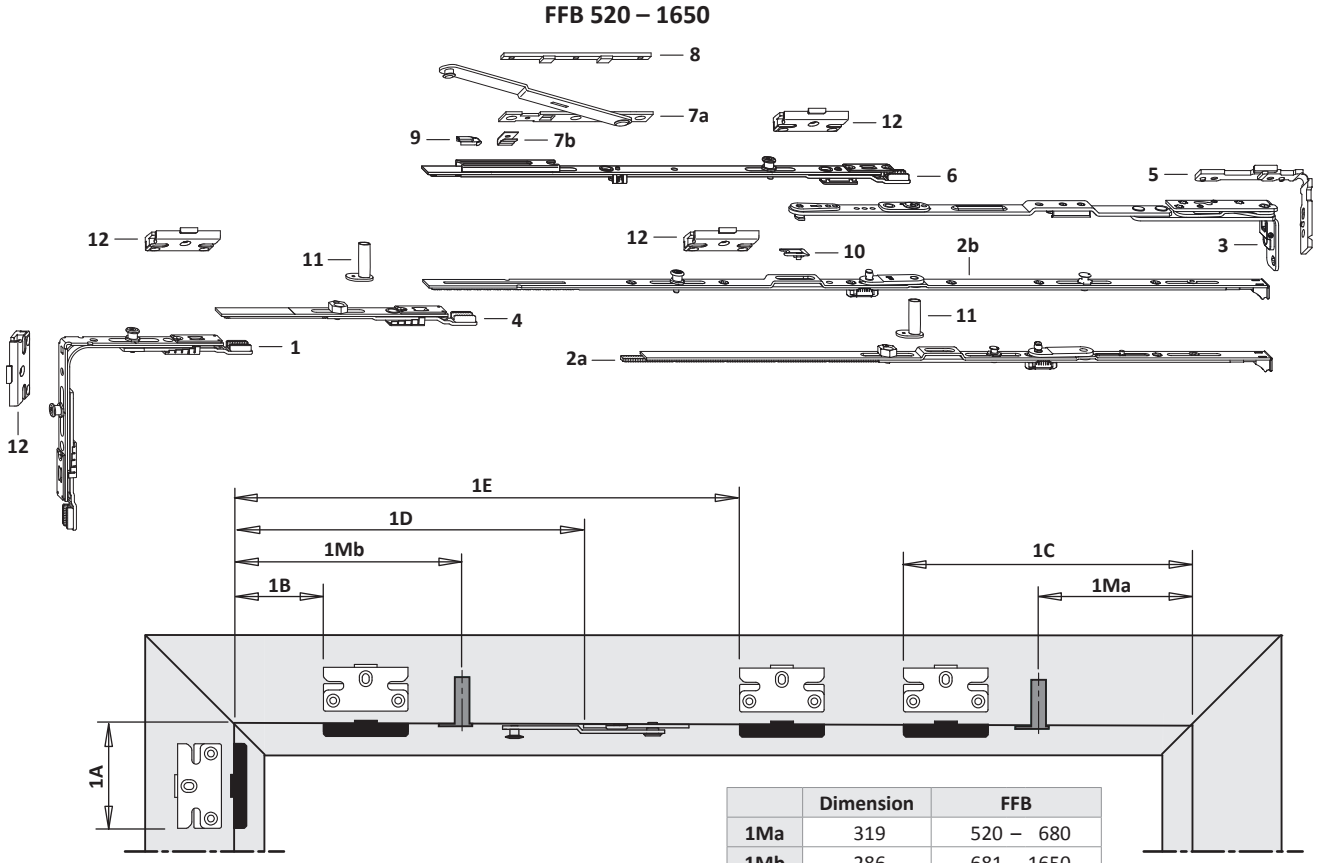
hinge side axxent 24+

surface TS

All further necessary information on the AEROCONTROL programme (opening and closure monitoring) like magnetic switches, assembly and connection instructions and the extensive accessory programme can be taken from our separate product catalogue DRIVE - AEROCONTROL.

AEROCONTROL

1-sash square tilt-turn
PVC hinge side axxent 24+



	Dimension	FFB
1Ma	319	520 – 680
1Mb	286	681 – 1650
1A	67	520 – 1650
1B	83	520 – 1650
1C	436	881 – 1050
	556	1051 – 1250
	436	1251 – 1450
	556	1451 – 1650
1D	507	1251 – 1650
1E	666	1251 – 1650

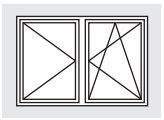
Dimensions in mm
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

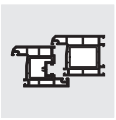
RFB = FFB + 24 mm
RFH = FFH + 24 mm

Pos.	Description	Part number	QTY	FFB	FFH G - fixed	FFH G - centre	Frame Parts Pos. 12
1	corn.drive AF VSO SF 2RS A0055	TEUL4070–...	1	520 – 1650	450 – 3000	460 – 3000	2
2a	stay sash part AF AX UE sz 1	TSSV4010–...	1	520 – 680			
2b	stay sash part AF AX sz 1	TSSV4000–...		681 – 880			
	stay sash part AF AX sz 2+3 1RS	TSSV0310–...		881 – 1050			1
	stay sash part AF AX sz 4 1RS	TSSV0320–...		1051 – 1250			1
	stay sash part AF AX sz 2+3 1RS	TSSV0310–...		1251 – 1450			1
	stay sash part AF AX sz 4 1RS	TSSV0320–...		1451 – 1650			1
3	stay arm AX sz 1	ref. PDB, TSAV41	1	520 – 880			
	stay arm AX sz 2+3	ref. PDB, TSAV42		881 – 1050			
	stay arm AX sz 4	ref. PDB, TSAV44		1051 – 1250			
	stay arm AX sz 2+3	ref. PDB, TSAV42		1251 – 1450			
	stay arm AX sz 4	ref. PDB, TSAV44		1451 – 1650			
4	linkage AF UE sz 1 1M	TZZS0160–...	1	681 – 1650			
5	accessories AX	ref. PDB, TMZV41	1	520 – 1650			
6	linkage additional stay 1RS	TZOK1010–...	1	1251 – 1650			1
7	additional stay	ref. PDB, TSZS	1	1251 – 1650			
8	packer Z A....	ref. PDB, FRUP01	1	1251 – 1650			
9	tilt restr. additional stay	889008	1	1251 – 1650			
10	tilt restrictor V-V sz 2-4	TFKB0040–...	1	881 – 1650	450 – 900	460 – 900	
11	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	520 – 1650			
12	striker plate S-RS A....	ref. PDB, TRSK					

TITAN AF

Installation instructions





RC2

AEROCONTROL

2-sash square tilt-turn/turn DS 16

PVC

RC2

fixed handle position and centre handle pos. (variable)

hinge side axxent 24+

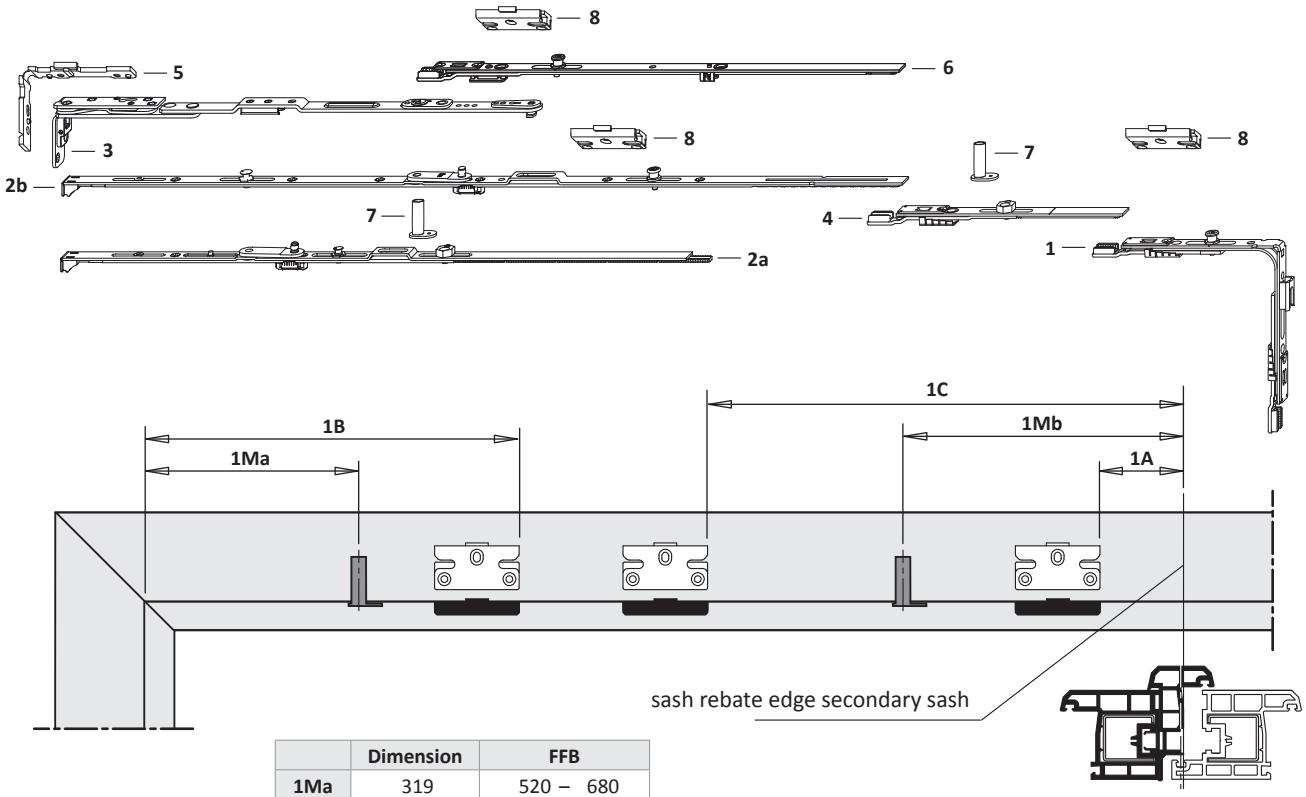
surface TS

All further necessary information on the AEROCONTROL programme (opening and closure monitoring) like magnetic switches, assembly and connection instructions and the extensive accessory programme can be taken from our separate product catalogue DRIVE - AEROCONTROL.

AEROCONTROL slave sash

2-sash square tilt-turn/turn DS 16
PVC hinge side axxent 24+

FFB 520 – 1450



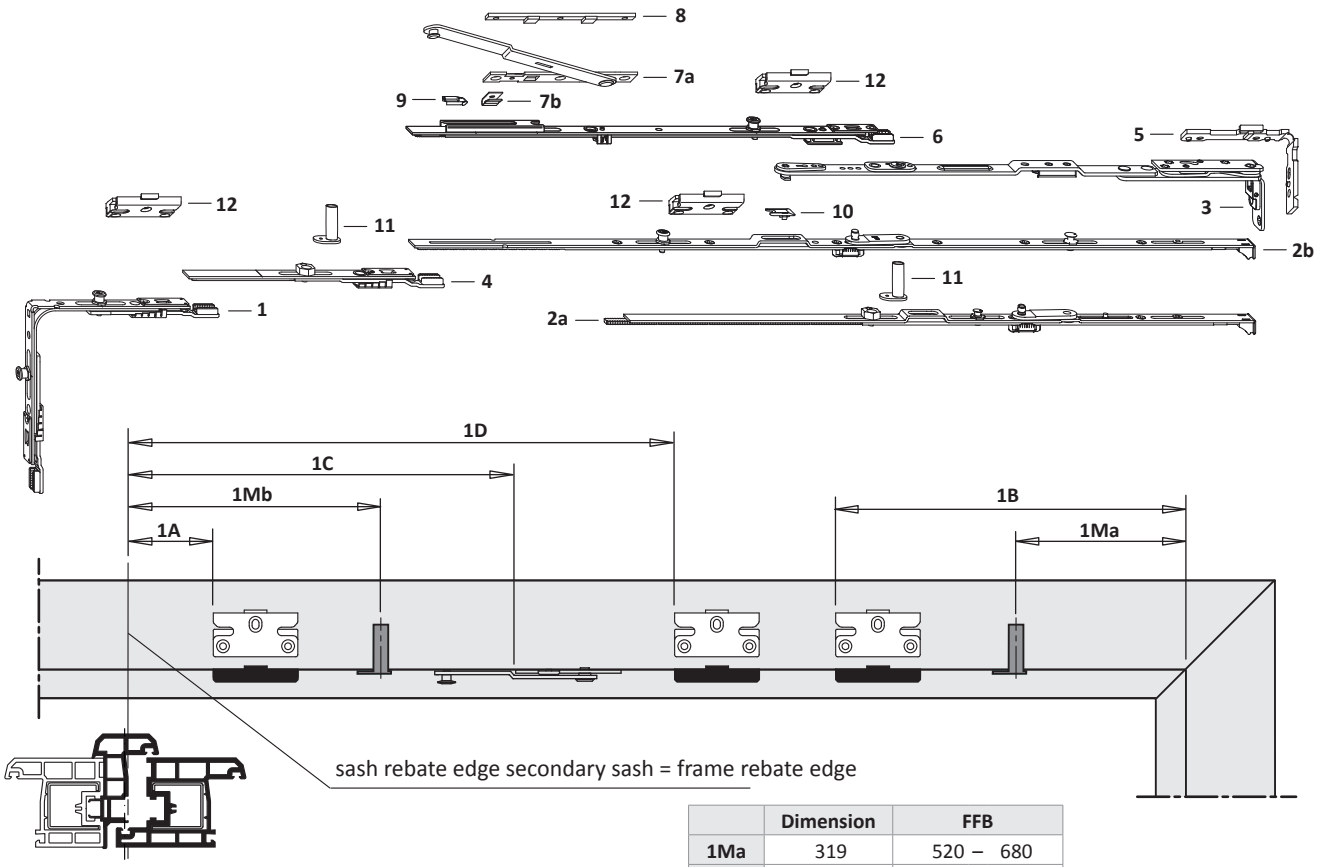
	Dimension	FFB
1Ma	319	520 – 680
1Mb	274	681 – 1450
1A	71	520 – 1450
1B	436	881 – 1050
	556	1051 – 1250
	436	1251 – 1450
1C	654	1251 – 1450

Dimensions in mm
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

Pos.	Description	Part number	QTY	FFB	FFH G - fixed	FFH G - centre	Frame Parts Pos. 8
1	corn.drive AF VSO WK2 SB 1RS	TEUL4080–...	1	520 – 1450	450 – 3000	460 – 3000	1
2a	stay sash part AF AX UE sz 1	TSSV4010–...	1	520 – 680			
2b	stay sash part AF AX sz 1	TSSV4000–...		681 – 880			
	stay sash part AF AX sz 2+3 1RS	TSSV0310–...		881 – 1050			1
	stay sash part AF AX sz 4 1RS	TSSV0320–...		1051 – 1250			1
	stay sash part AF AX sz 2+3 1RS	TSSV0310–...		1251 – 1450			1
3	stay arm AX sz 1	ref. PDB, TSAV41	1	520 – 880			
	stay arm AX sz 2+3	ref. PDB, TSAV42		881 – 1050			
	stay arm AX sz 4	ref. PDB, TSAV44		1051 – 1250			
	stay arm AX sz 2+3	ref. PDB, TSAV42		1251 – 1450			
4	linkage AF UE sz 1 1M	TZZS0160–...	1	681 – 1450			
5	accessories AX	ref. PDB, TMZV41	1	520 – 1450			
6	linkage KK/AF sz 2 1RS	TZKK1020–...	1	1251 – 1450			1
7	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	520 – 1450			
8	striker plate S-RS A....	ref. PDB, TRSK					

FFB 520 – 1650



	Dimension	FFB
1Ma	319	520 – 680
1Mb	286	681 – 1650
1A	83	520 – 1650
1B	436	881 – 1050
	556	1051 – 1250
	436	1251 – 1450
	556	1451 – 1650
1C	507	1251 – 1650
1D	666	1251 – 1650

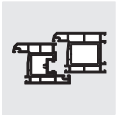
Dimensions in mm
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

Pos.	Description	Part number	QTY	FFB	FFH G - fixed	FFH G - centre	Frame Parts Pos. 12
1	corn.drive AF VSO 2RS A0055	TEUL4070–...	1	520 – 1650	450 – 3000	460 – 3000	2
2a	stay sash part AF AX UE sz 1	TSSV4010–...	1	520 – 680			
2b	stay sash part AF AX sz 1	TSSV4000–...		681 – 880			
	stay sash part AF AX sz 2+3 1RS	TSSV0310–...		881 – 1050			1
	stay sash part AF AX sz 4 1RS	TSSV0320–...		1051 – 1250			1
	stay sash part AF AX sz 2+3 1RS	TSSV0310–...		1251 – 1450			1
	stay sash part AF AX sz 4 1RS	TSSV0320–...		1451 – 1650			1
3	stay arm AX sz 1	ref. PDB, TSAV41	1	520 – 880			
	stay arm AX sz 2+3	ref. PDB, TSAV42		881 – 1050			
	stay arm AX sz 4	ref. PDB, TSAV44		1051 – 1250			
	stay arm AX sz 2+3	ref. PDB, TSAV42		1251 – 1450			
	stay arm AX sz 4	ref. PDB, TSAV44		1451 – 1650			
4	linkage AF UE sz 1 1M	TZZS0160–...	1	681 – 1650			
5	accessories AX	ref. PDB, TMZV41	1	520 – 1650			
6	linkage additional stay 1RS	TZOK1010–...	1	1251 – 1650			1
7	additional stay	ref. PDB, TSZS	1	1251 – 1650			
8	packer Z A....	ref. PDB, FRUP01	1	1251 – 1650			
9	tilt restr. additional stay	889008	1	1251 – 1650			
10	tilt restrictor V-V sz 2-4	TFKB0040–...	1	881 – 1650	450 – 900	460 – 900	
11	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	520 – 1650			
12	striker plate S-RS A....	ref. PDB, TRSK					

TITAN AF

Installation instructions



RC2
ECO

AEROCONTROL

1-sash square tilt-turn

PVC

RC2 ECO

fixed handle position and centre handle pos. (variable)

hinge side axxent 24+

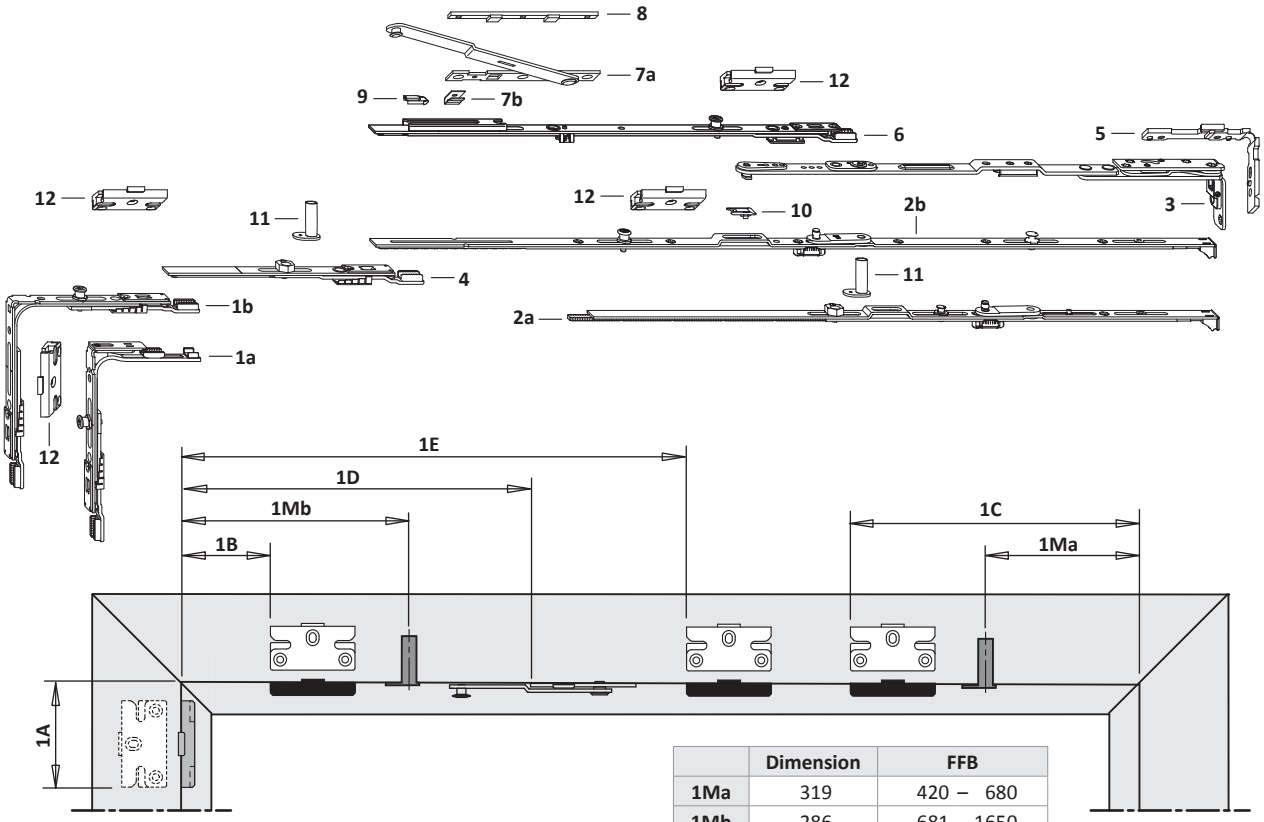
surface TS

All further necessary information on the AEROCONTROL programme (opening and closure monitoring) like magnetic switches, assembly and connection instructions and the extensive accessory programme can be taken from our separate product catalogue DRIVE - AEROCONTROL.

AEROCONTROL

1-sash square tilt-turn
PVC hinge side axxent 24+

FFB 420 – 1650



	Dimension	FFB
1Ma	319	420 – 680
1Mb	286	681 – 1650
1A	67	420 – 520
1B	83	521 – 1650
1C	436	881 – 1050
	556	1051 – 1250
	436	1251 – 1450
	556	1451 – 1650
1D	507	1251 – 1650
1E	666	1251 – 1650

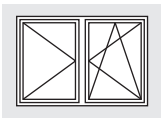
Dimensions in mm
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

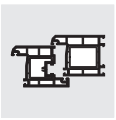
RFB = FFB + 24 mm
RFH = FFH + 24 mm

Pos.	Description	Part number	QTY	FFB	FFH G - fixed	FFH G - centre	Frame Parts Pos. 12
1a	corn.drive AF VSO SF nar. 1RS	TEUL4020–...	1	420 – 520	450 – 3000	460 – 3000	1
1b	corn.drive VSO 1RS	TEUL4010–...		521 – 1650	450 – 3000	460 – 3000	1
2a	stay sash part AF AX UE sz 1	TSSV4010–...	1	420 – 680			
2b	stay sash part AF AX sz 1	TSSV4000–...		681 – 880			
	stay sash part AF AX sz 2+3 1RS	TSSV0310–...		881 – 1050			1
	stay sash part AF AX sz 4 1RS	TSSV0320–...		1051 – 1250			1
	stay sash part AF AX sz 2+3 1RS	TSSV0310–...		1251 – 1450			1
	stay sash part AF AX sz 4 1RS	TSSV0320–...		1451 – 1650			1
3	stay arm AX sz 1	ref. PDB, TSAV41	1	420 – 880			
	stay arm AX sz 2+3	ref. PDB, TSAV42		881 – 1050			
	stay arm AX sz 4	ref. PDB, TSAV44		1051 – 1250			
	stay arm AX sz 2+3	ref. PDB, TSAV42		1251 – 1450			
	stay arm AX sz 4	ref. PDB, TSAV44		1451 – 1650			
4	linkage AF UE sz 1 1M	TZZS0160–...	1	681 – 1650			
5	accessories AX	ref. PDB, TMZV41	1	420 – 1650			
6	linkage additional stay 1RS	TZOK1010–...	1	1251 – 1650			1
7	additional stay	ref. PDB, TSZS	1	1251 – 1650			
8	packer Z A....	ref. PDB, FRUP01	1	1251 – 1650			
9	tilt restr. additional stay	889008	1	1251 – 1650			
10	tilt restrictor V-V sz 2-4	TFKB0040–...	1	881 – 1650	450 – 900	460 – 900	
11	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	420 – 1650			
12	striker plate S-RS A....	ref. PDB, TRSK					

TITAN AF

Installation instructions





RC2
ECO

AEROCONTROL

2-sash square tilt-turn/turn DS 16

PVC

RC2 ECO

fixed handle position and centre handle pos. (variable)

hinge side axxent 24+

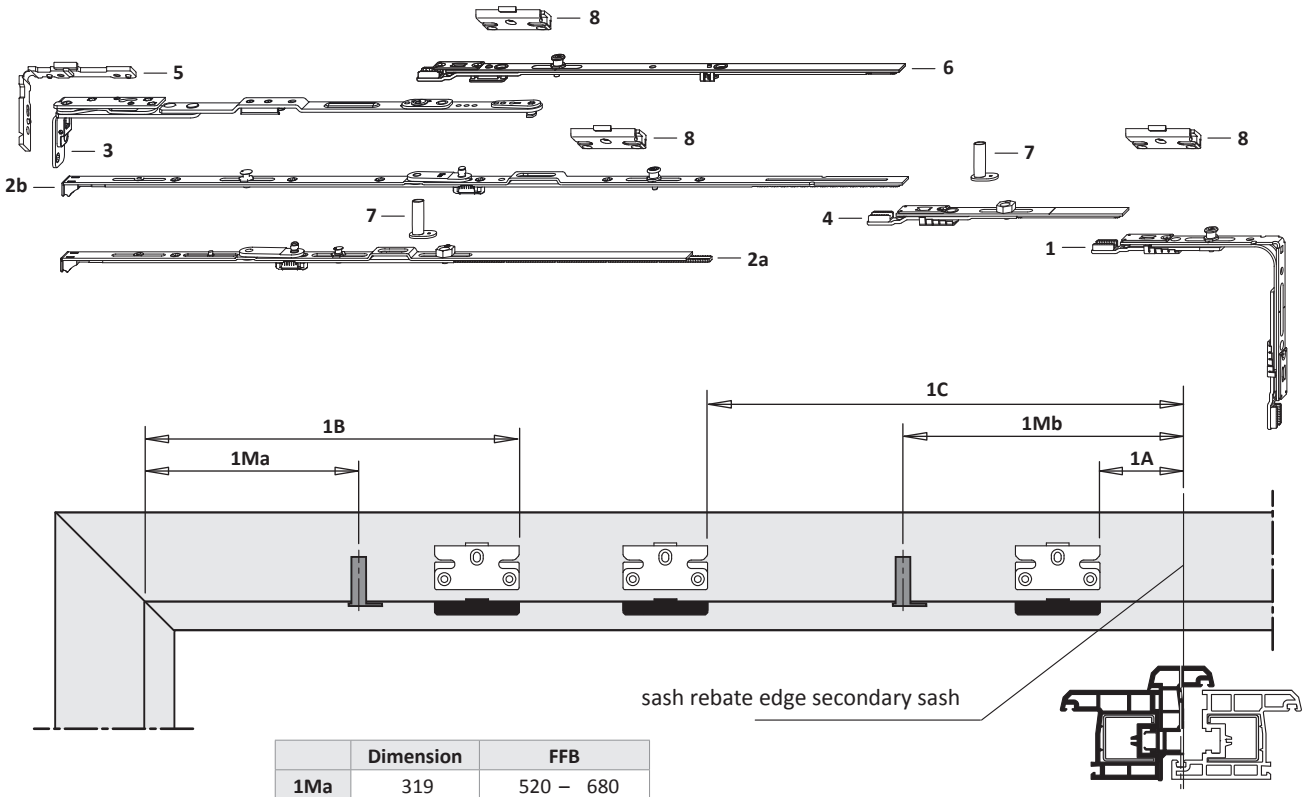
surface TS

All further necessary information on the AEROCONTROL programme (opening and closure monitoring) like magnetic switches, assembly and connection instructions and the extensive accessory programme can be taken from our separate product catalogue DRIVE - AEROCONTROL.

AEROCONTROL slave sash

2-sash square tilt-turn/turn DS 16
PVC hinge side axxent 24+

FFB 520 – 1450



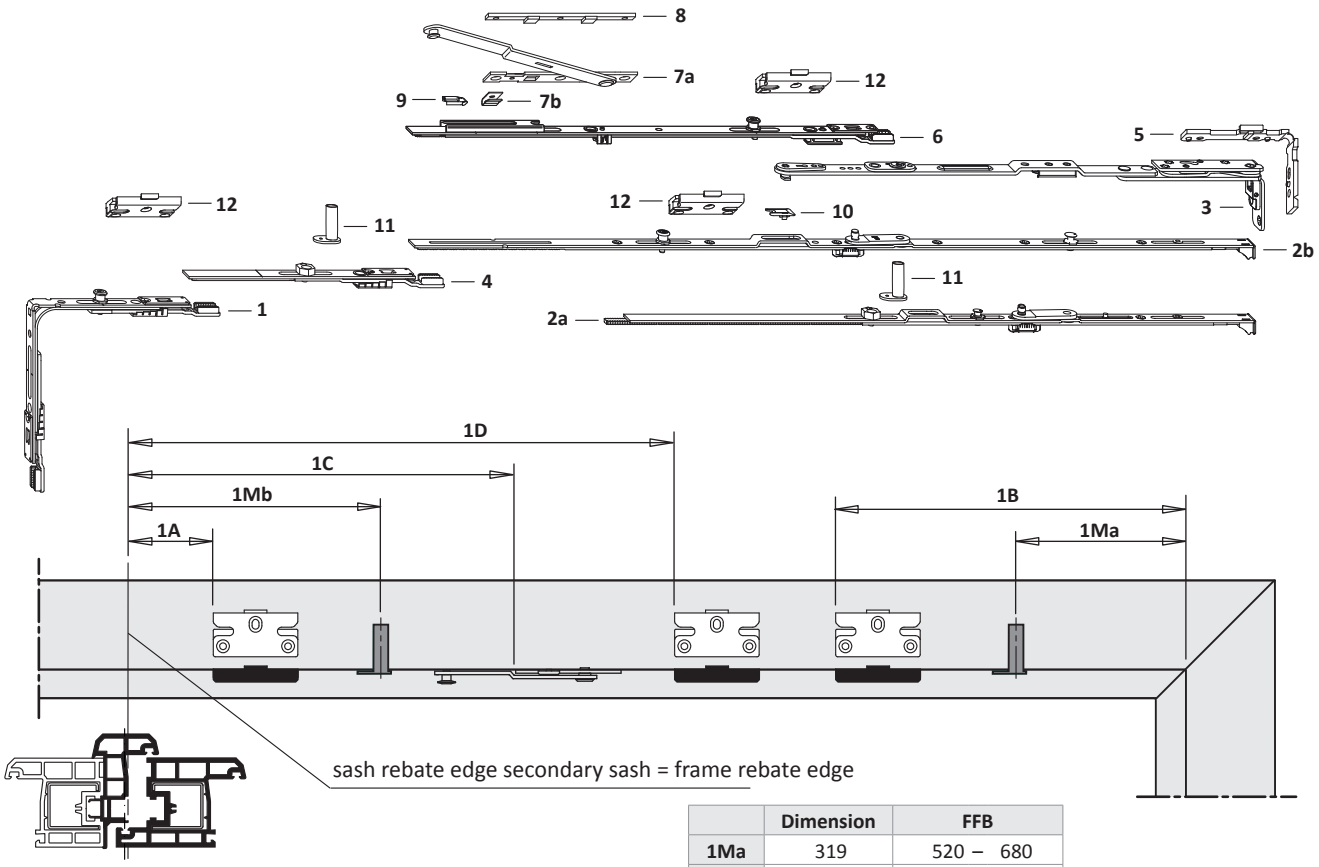
	Dimension	FFB
1Ma	319	520 – 680
1Mb	274	681 – 1450
1A	71	520 – 1450
1B	436	881 – 1050
	556	1051 – 1250
	436	1251 – 1450
1C	654	1251 – 1450

Dimensions in mm
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 12 mm
RFH = FFH + 24 mm

Pos.	Description	Part number	QTY	FFB	FFH G - fixed	FFH G - centre	Frame Parts Pos. 8
1	corn.drive AF VSO 1RS	TEUL4010–...	1	520 – 1450	450 – 3000	460 – 3000	1
2a	stay sash part AF AX UE sz 1	TSSV4010–...	1	520 – 680			
2b	stay sash part AF AX sz 1	TSSV4000–...		681 – 880			
	stay sash part AF AX sz 2+3 1RS	TSSV0310–...		881 – 1050			1
	stay sash part AF AX sz 4 1RS	TSSV0320–...		1051 – 1250			1
	stay sash part AF AX sz 2+3 1RS	TSSV0310–...		1251 – 1450			1
3	stay arm AX sz 1	ref. PDB, TSAV41	1	520 – 880			
	stay arm AX sz 2+3	ref. PDB, TSAV42		881 – 1050			
	stay arm AX sz 4	ref. PDB, TSAV44		1051 – 1250			
	stay arm AX sz 2+3	ref. PDB, TSAV42		1251 – 1450			
4	linkage AF UE sz 1 1M	TZZS0160–...	1	681 – 1450			
5	accessories AX	ref. PDB, TMZV41	1	520 – 1450			
6	linkage KK/AF sz 2 1RS	TZKK1020–...	1	1251 – 1450			1
7	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	520 – 1450			
8	striker plate S-RS A....	ref. PDB, TRSK					

FFB 520 – 1650



	Dimension	FFB
1Ma	319	520 – 680
1Mb	286	681 – 1650
1A	83	520 – 1650
1B	436	881 – 1050
	556	1051 – 1250
	436	1251 – 1450
	556	1451 – 1650
1C	507	1251 – 1650
1D	666	1251 – 1650

Dimensions in mm
All striker positions are frame rebate dimensions on welded frames. Airgap 12^{+1} mm.

RFB = FFB + 24 mm
RFH = FFH + 24 mm

Pos.	Description	Part number	QTY	FFB	FFH G - fixed	FFH G - centre	Frame Parts Pos. 12
1	corn.drive AF VSO 1RS	TEUL4010–...	1	520 – 1650	450 – 3000	460 – 3000	1
2a	stay sash part AF AX UE sz 1	TSSV4010–...	1	520 – 680			
2b	stay sash part AF AX sz 1	TSSV4000–...		681 – 880			
	stay sash part AF AX sz 2+3 1RS	TSSV0310–...		881 – 1050			1
	stay sash part AF AX sz 4 1RS	TSSV0320–...		1051 – 1250			1
	stay sash part AF AX sz 2+3 1RS	TSSV0310–...		1251 – 1450			1
	stay sash part AF AX sz 4 1RS	TSSV0320–...		1451 – 1650			1
3	stay arm AX sz 1	ref. PDB, TSAV41	1	520 – 880			
	stay arm AX sz 2+3	ref. PDB, TSAV42		881 – 1050			
	stay arm AX sz 4	ref. PDB, TSAV44		1051 – 1250			
	stay arm AX sz 2+3	ref. PDB, TSAV42		1251 – 1450			
	stay arm AX sz 4	ref. PDB, TSAV44		1451 – 1650			
4	linkage AF UE sz 1 1M	TZZS0160–...	1	681 – 1650			
5	accessories AX	ref. PDB, TMZV41	1	520 – 1650			
6	linkage additional stay 1RS	TZOK1010–...	1	1251 – 1650			1
7	additional stay	ref. PDB, TSZS	1	1251 – 1650			
8	packer Z A....	ref. PDB, FRUP01	1	1251 – 1650			
9	tilt restr. additional stay	889008	1	1251 – 1650			
10	tilt restrictor V-V sz 2-4	TFKB0040–...	1	881 – 1650	450 – 900	460 – 900	
11	UMS001 VdS-contr. 4p. 6M (25 pieces)	315101	1	520 – 1650			
12	striker plate S-RS A....	ref. PDB, TRSK					

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